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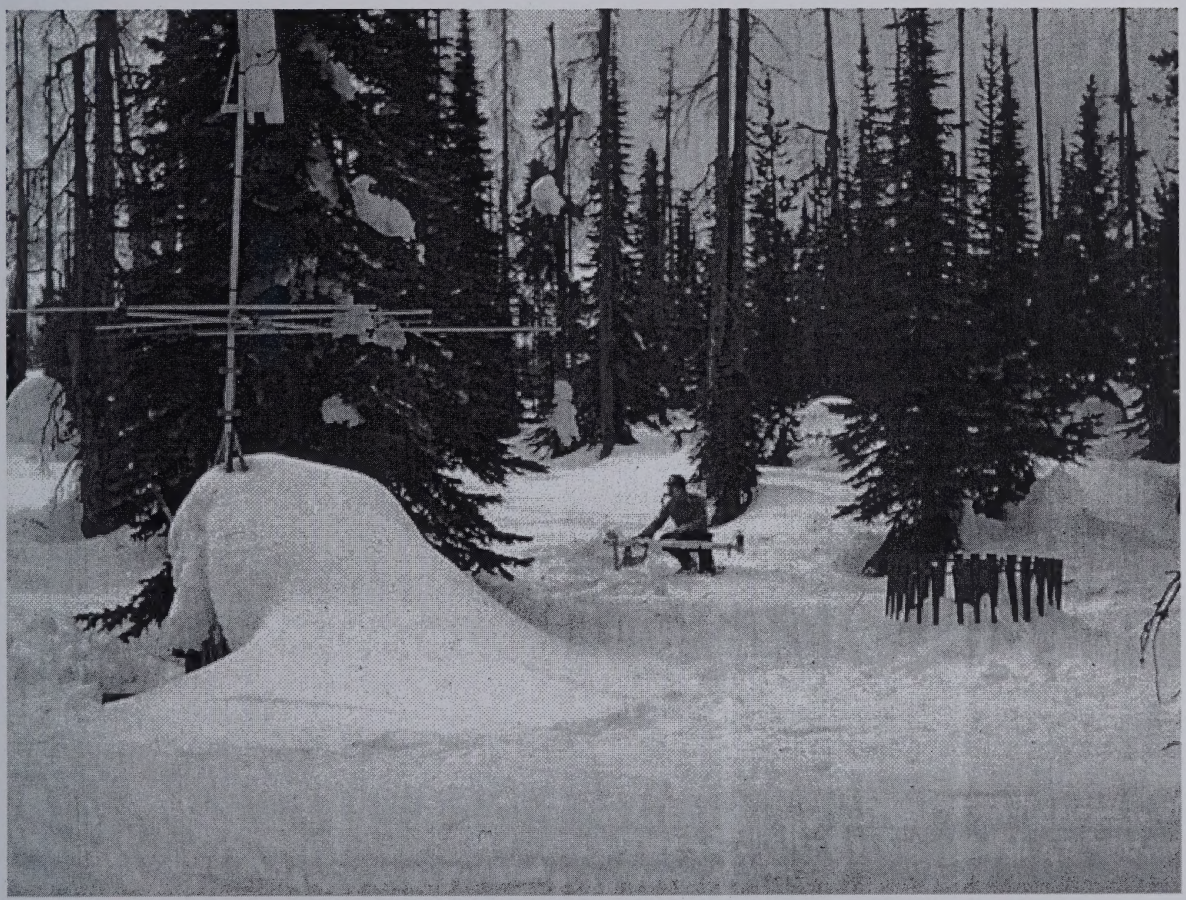
Natural Resources Conservation Service

Montana Water Supply Outlook Report February 1, 2003



Water Supply Outlook Report
and
Federal - State - Private
Cooperative Snow Surveys

For more water supply and resource management information, contact:
See Attached List

How forecasts are made

Most of the annual streamflow in the Western United States originates as snowfall that has accumulated high in the mountains during winter and early spring. As the snowpack accumulates, hydrologists estimate the runoff that will occur when it melts. Predictions are based on careful measurements of snow water equivalent at selected index points. Precipitation, temperature, soil moisture and antecedent streamflow data are combined with snowpack data to prepare runoff forecasts. Streamflow forecasts are coordinated by Natural Resources Conservation Service and National Weather Service hydrologists. This report presents a comprehensive picture of water supply conditions for areas dependent upon surface runoff. It includes selected streamflow forecasts, summarized snowpack and precipitation data, reservoir storage data, and narratives describing current conditions.

Snowpack data are obtained by using a combination of manual and automated SNOTEL measurement methods. Manual readings of snow depth and water equivalent are taken at locations called snow courses on a monthly or semi-monthly schedule during the winter. In addition, snow water equivalent, precipitation and temperature are monitored on a daily basis and transmitted via meteor burst telemetry to central data collection facilities. Both monthly and daily data are used to project snowmelt runoff.

Forecast uncertainty originates from two sources: (1) uncertainty of future hydrologic and climatic conditions, and (2) error in the forecasting procedure. To express the uncertainty in the most probable forecast, four additional forecasts are provided. The actual streamflow can be expected to exceed the most probable forecast 50% of the time. Similarly, the actual streamflow volume can be expected to exceed the 90% forecast volume 90% of the time. The same is true for the 70%, 30%, and 10% forecasts. Generally, the 90% and 70% forecasts reflect drier than normal hydrologic and climatic conditions; the 30% and 10% forecasts reflect wetter than normal conditions. As the forecast season progresses, a greater portion of the future hydrologic and climatic uncertainty will become known and the additional forecasts will move closer to the most probable forecast.

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Water Supply Outlook Report
and
Federal - State - Private
Cooperative Snow Surveys

United States Department of Agriculture
Natural Resources Conservation Service
Bozeman, Montana

(406) 587-6811
10 E Babcock
Federal Bldg Room 443
Bozeman MT 59715

Where to Get More Information

This contact list provides you with the names and phone numbers of individuals who can provide more detailed snow survey information for each county.

Beaverhead County
Victor Hager
683-3800

Big Horn County
Evan Van Order
665-3442

Blaine County
Matthew Crampton
357-2320

Broadwater County
Kelly Morris
266-3146

Carbon County
Gregory Evertz
962-3641

Carter County
Wayne Yost
775-6355

Cascade County
Marty Metz
727-7580

Chouteau County
Dan Van Voast
622-5627

Custer County
Terry Heck
232-7905

Daniels County
Stanley French
487-5366

Dawson County
Linda Peterson-Lohse
365-5566

Deer Lodge County
Glen Green
846-1703

Fallon County
Ann Fischer
778-2217

Fergus County
Patty Creamer
538-7401

Flathead County
Angel Rosario
752-4242

Gallatin County
Gordon Hill
522-4018

Garfield County
Clarence Clayton
557-2740

Glacier County
Mark Johnson
873-4292

Golden Valley County
John Rouane Jr.
323-2103

Granite County
Annette Deyling
859-3291

Hill County
Deana Grabofsky
265-6792

Jefferson County
Julie Sacks
287-3215

Judith Basin County
Rick Caquelin
566-2311

Lake County
David Wolf
676-2841

Lewis and Clark County
Lex Riggle
449-5278

Liberty County
Dawn Wickum
759-5778

Lincoln County
Kirk Sullivan
296-2233

Madison County
Ole Berkram
842-5741

McCone County
Regan Fanning
485-2744

Meagher County
Tammy DeCock
547-3633

(over)

Mineral County
Mike Odegard
829-3395

Missoula County
Mike Odegard
829-3395

Musselshell County
John Rouane Jr.
323-2103

Park County
Ron Hoagland
222-2899

Petroleum County
Nikki Lott
429-6646

Phillips County
Lorna Philp
654-1334

Pondera County
Anthony Prince
278-3922

Powder River County
Carol Hilliard
436-2417

Powell County
Glen Green
846-1703

Prairie County
Bob Prongua
635-5381

Ravalli County
Lane Johnson
363-5010

Richland County
Jamie Selting
433-2103

Roosevelt County
Robert Bray
787-5232

Rosebud County
Rocky Schwagler
356-7333

Sanders County
Don Feist
826-3701

Sheridan County
Monica Friedrich
765-1801

Silver Bow County
Julie Sacks
287-3215

Stillwater County
Philip Sandoval
322-5359

Sweet Grass County
Chuck Roloff
932-5160

Teton County
Stacy Denny-Eneboe
466-5722

Toole County
Misty Vermulm
434-5234

Treasure County
Stewart Greer
342-5510

Valley County
Denise Wiedenheft
228-4321

Wheatland County
John Oiestad
632-5534

Wibaux County
Katrina Johnson
796-2211

Yellowstone County
Shad Weber
657-6135

12/19/02

Montana Water Supply Outlook Report as of February 1, 2003

Montana had several storms move across areas of the state during January adding much needed mountain snow. Regions with the largest gains were in the southern half of the state. There have been several rain events during January but there has not been significant snowpack loss from the rains. January average temperature departures state-wide were generally 5 to 6 degrees above normal.

Snowpack

Mountain snowpack statewide was 73 percent of average and 81 percent of last year. West of the Continental Divide, snowpack was 70 percent of average and 72 percent of last year and East of the continental Divide, snowpack was 74 percent of average and 95 percent of last year.

Although there has been good snowpack gains during January there is still a long way to go to insure adequate surface water supplies during the up coming spring and summer months.

RIVER BASIN	% OF AVERAGE	% OF LAST YEAR	JANUARY % CHANGE
COLUMBIA	70	72	9
KOOTENAI	71	63	-2
FLATHEAD	69	71	10
UPPER CLARK FORK	75	91	19
BITTERROOT	75	80	9
LOWER CLARK FORK	67	61	8
MISSOURI	70	88	9
MISSOURI HEADWATERS	76	91	11
JEFFERSON	75	97	13
MADISON	73	81	7
GALLATIN	74	83	15
MISSOURI MAINSTEM	60	85	5
HEADWATERS MAINSTEM	76	105	12
SMITH-JUDITH-MUSSELSHELL	74	93	6
SUN-TETON-MARIAS	52	64	6
MILK	17	72	8
BEARPAW MOUNTAINS	17	59	8
CYPRESS HILLS, CANADA	18	87	-
ST. MARY	73	70	3
ST. MARY & MILK	52	70	11
YELLOWSTONE	78	104	8
UPPER YELLOWSTONE	85	105	16
LOWER YELLOWSTONE (WYOMING)	75	106	2
WIND	70	99	-2
SHOSHONE	85	115	11
BIGHORN	77	107	7
TONGUE	79	111	2
POWDER	67	95	0

Precipitation

January mountain and valley precipitation across the state was 106 percent of average and 97 percent of last year, while the water year precipitation was 71 percent of average and 77 percent of last year.

West of the Continental Divide, January mountain and valley precipitation was 109 percent of average and 88 percent of last year and the water year precipitation was 73 percent of average and 70 percent of last year. East of the Divide, January mountain and valley precipitation was 103 percent of average and 108 percent of last year and the water year precipitation was 69 percent of average and 86 percent of last year.

RIVER BASIN	JANUARY % OF AVERAGE	WATER YEAR % OF AVERAGE
COLUMBIA	109	73
KOOTENAI	91	75
FLATHEAD	93	68
UPPER CLARK FORK	125	73
BITTERROOT	142	82
LOWER CLARK FORK	119	77
MISSOURI	97	68
JEFFERSON	114	72
MADISON	96	70
GALLATIN	109	66
MISSOURI MAINSTEM	99	72
SMITH-JUDITH-MUSSELSHELL	93	71
SUN-TETON-MARIAS	75	58
MILK	73	66
ST. MARY	82	66
YELLOWSTONE	117	79
UPPER YELLOWSTONE	129	83
LOWER YELLOWSTONE (WYOMING)	109	77
WIND	84	77
SHOSHONE	144	95
BIGHORN	91	74
TONGUE	98	85
POWDER	82	83

Reservoirs

Major reservoir storages statewide were 91 percent of average and 99 percent of last year. Reservoir storage west of the Continental Divide was 128 percent of average and 107 percent of last year. East of the Continental Divide, reservoir storages were 79 percent of average and 96 percent of last year.

RIVER BASIN	% OF AVERAGE	% OF LAST YEAR
COLUMBIA	128	107
KOOTENAI	152	117
FLATHEAD	114	99
UPPER CLARK FORK	97	109
BITTERROOT	59	63
LOWER CLARK FORK	106	103
MISSOURI	79	96
JEFFERSON	42	84
MADISON	108	102
GALLATIN	130	86
MISSOURI MAINSTEM	77	94
SMITH-JUDITH-MUSSELSHELL	34	143
SUN-TETON-MARIAS	118	130
MILK	105	453
ST. MARY	44	64
YELLOWSTONE	75	91
UPPER YELLOWSTONE	118	123
LOWER YELLOWSTONE	74	90

Streamflow

Assuming normal precipitation across Montana, streamflows are forecast to average 46 to 58 percent. West of the Continental Divide, streamflows are forecast to average 53 and 65 percent. East of the Continental Divide, streamflows are forecast to average 40 and 53 percent.

Below are averaged river basin streamflow forecast summaries for the period April 1 through July 31. THESE FORECASTS ASSUME NEAR NORMAL SPRING CONDITIONS AND DO NOT ACCOUNT FOR WELL BELOW AVERAGE (70% or less) OR WELL ABOVE AVERAGE (130% or more) SNOWMELT OR SPRING RAIN. Specific forecast probabilities are available in each individual River Basin Report.

RIVER BASIN	April-July THIS YEAR % OF AVERAGE	April-July LAST YEAR % OF AVERAGE
COLUMBIA	53 to 65	65 to 76
KOOTENAI	62 to 72	73 to 82
FLATHEAD	57 to 65	67 to 77
UPPER CLARK FORK	46 to 63	46 to 61
BITTERROOT	61 to 72	73 to 84
LOWER CLARK FORK	48 to 57	66 to 77
MISSOURI	37 to 52	50 to 63
JEFFERSON	39 to 56	50 to 65
MADISON	59 to 66	74 to 81
GALLATIN	51 to 63	59 to 71
MISSOURI MAINSTEM	45 to 62	55 to 70
SMITH-JUDITH-MUSSELSHELL	24 to 37	42 to 53
SUN-TETON-MARIAS	30 to 45	48 to 66
MILK	24 to 36	26 to 37
ST. MARY	64 to 70	70 to 77
YELLOWSTONE	47 to 57	47 to 57
UPPER YELLOWSTONE	59 to 70	60 to 69
LOWER YELLOWSTONE	30 to 39	35 to 46

NOTE: The APRIL-JULY LAST YEAR % OF AVERAGE column above is what was forecast last year, NOT what actually occurred.

Surface Water Supply Index

The Surface Water Supply Index (SWSI) is a measure of available surface water availability for the spring and summer months. Water users that rely on mountain precipitation can use the index to evaluate seasonal surface water supplies. The SWSI accounts for mountain snowpack, mountain precipitation, streamflow, reservoir storage, and soil moisture.

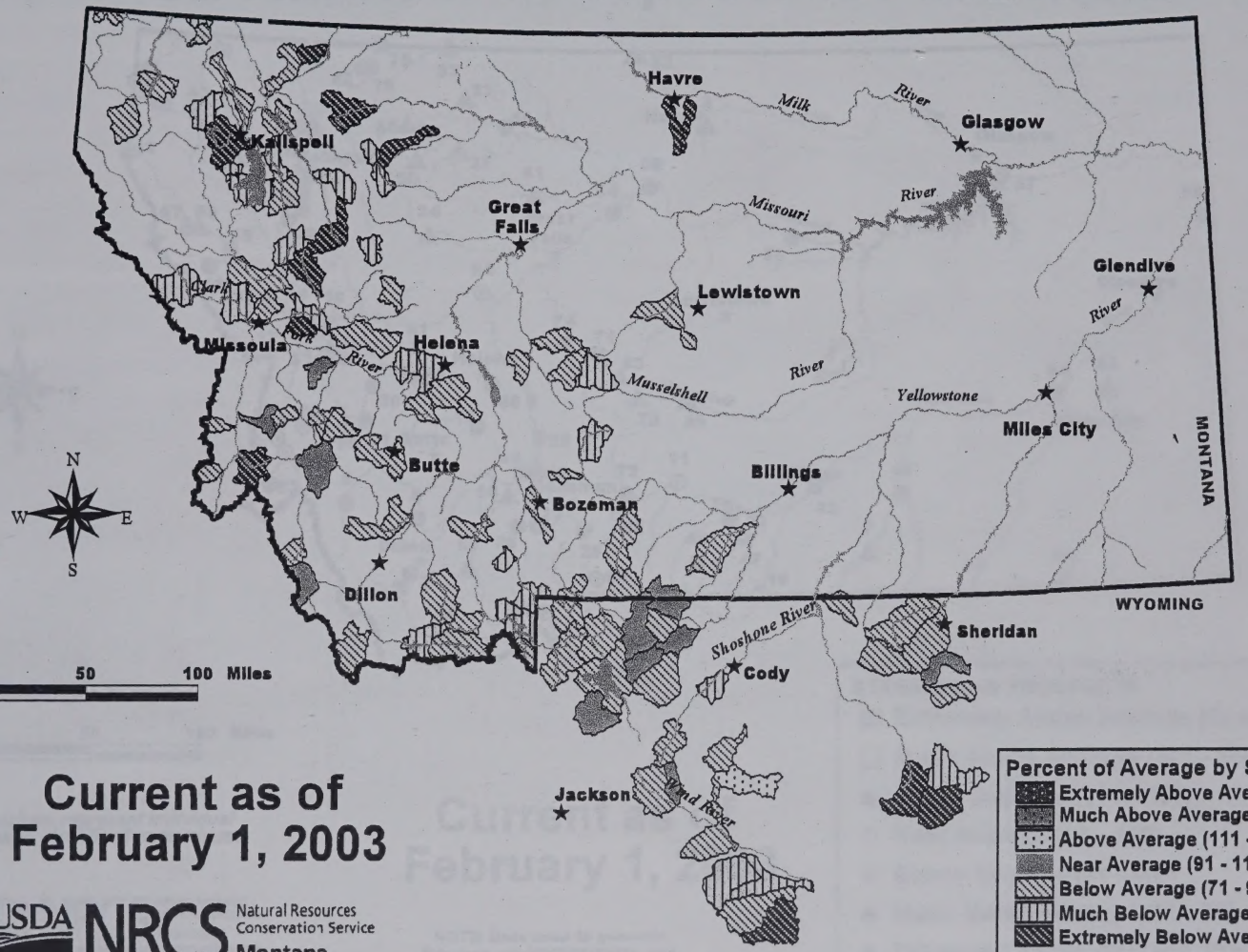
SWSI RATING	SURFACE WATER CONDITION
+3.0 to +4.0	Extremely Wet
+2.0 to +3.0	Moderately Wet
+1.0 to +2.0	Slightly Wet
-1.0 to +1.0	Near Average
-1.0 to -2.0	Slightly Dry
-2.0 to -3.0	Moderately Dry
-3.0 to -4.0	Extremely Dry

SWSI	Basin
-2.3	Tobacco River
-0.6	Kootenai Ft. Steele to Libby Dam
-0.6	Kootenai River below Libby Dam
-2.3	Fisher River
-2.4	Yaak River
-2.8	North Fork Flathead River
-2.9	Middle FORK Flathead River
-2.2	South Fork Flathead River
-3.0	Flathead River at Columbia Falls
-2.7	Stillwater/Whitefish Rivers
-3.3	Swan River
-3.0	Flathead River at Polson
-2.3	Mission Valley
-2.4	Little Bitterroot River
-2.4	Clark Fork River above Milltown
-2.9	Blackfoot River
-2.3	Bitterroot River
-2.5	Clark Fork River below Bitterroot River
-2.8	Clark Fork River below Flathead River
-3.4	Beaverhead River
-3.9	Ruby River
-2.2	Big Hole River
-2.3	Boulder River (Jefferson)
-2.5	Jefferson River
-2.3	Madison River
-2.9	Gallatin River
-2.5	Missouri River above Canyon Ferry
-2.3	Missouri River below Canyon Ferry
-1.9	Smith River
-3.9	Sun River
-2.9	Teton River
-2.4	Birch/Dupuyer Creeks
-2.2	Marias River above Tiber
-0.8	Marias River below Tiber
-3.3	Musselshell River
-1.3	Missouri River above Ft. Peck
-2.7	Missouri River below Ft. Peck
-2.5	Milk River
-2.4	Dearborn River near Craig
-2.6	Yellowstone River above Livingston
-2.8	Shields River
-3.5	Boulder River (Yellowstone)
-3.1	Stillwater River
-1.9	Rock/Red Lodge Creeks
-2.8	Clarks Fork River
-2.8	Yellowstone River above Bighorn River
-3.9	Bighorn River below Bighorn Lake
-2.4	Little Bighorn River
-3.3	Yellowstone River below Bighorn River
-3.4	Tongue River
-3.9	Powder River

UNITED STATES DEPARTMENT OF AGRICULTURE

NATURAL RESOURCES CONSERVATION SERVICE

Mountain Snow Water Equivalent



Current as of February 1, 2003

Percent of Average by Sub-Basin

- Extremely Above Average (Over 150)
- Much Above Average (131 - 150)
- Above Average (111 - 130)
- Near Average (91 - 110)
- Below Average (71 - 90)
- Much Below Average (51 - 70)
- Extremely Below Average (Below 51)

USDA NRCS Natural Resources Conservation Service Montana

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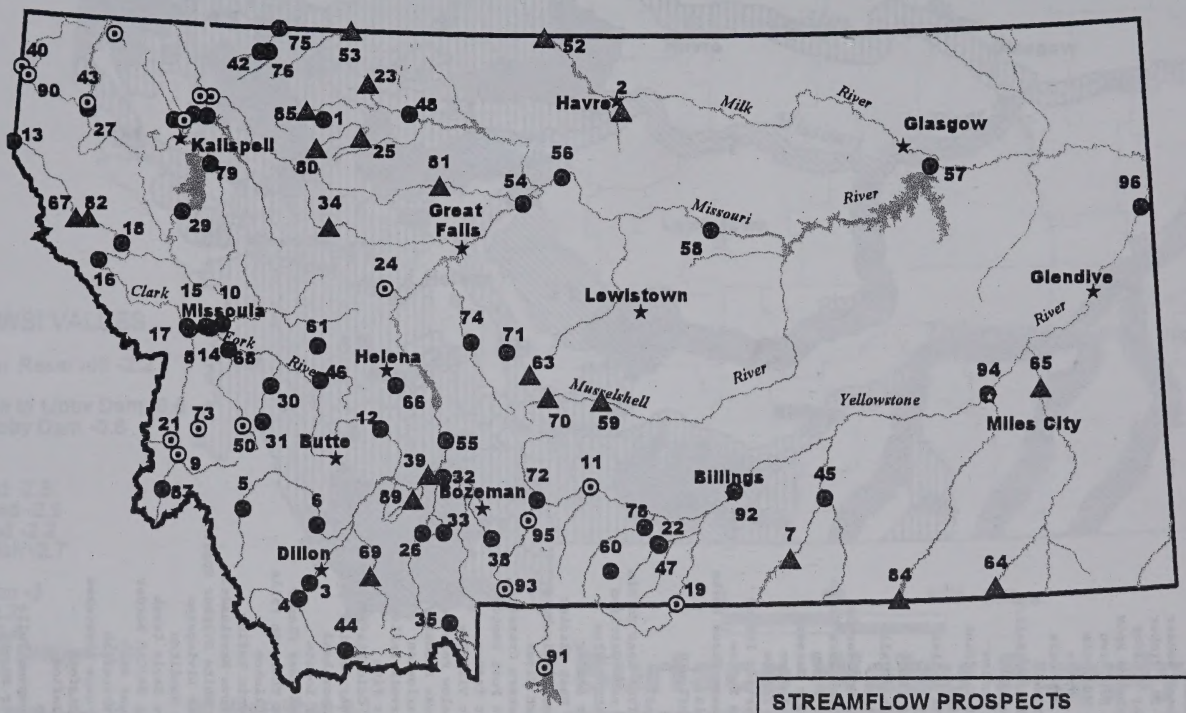
NOTE: Data used to generate this map are PROVISIONAL and SUBJECT TO CHANGE.

Mountain Snow Water Equivalent

Streamflow Prospects for Montana



Numbers represent individual station identification numbers.

Current as of February 1, 2003

NOTE: Data used to generate this map are PROVISIONAL and SUBJECT TO CHANGE.

STREAMFLOW PROSPECTS

- ■ Extremely Above Average (Over150)
- □ Much Above Average (131 - 150)
- ● Above Average (111 - 130)
- ○ Near Average (91 - 110)
- ⊙ Below Average (71 - 90)
- ● Much Below Average (51 - 70)
- ▲ Extremely Below Average (Below 51)

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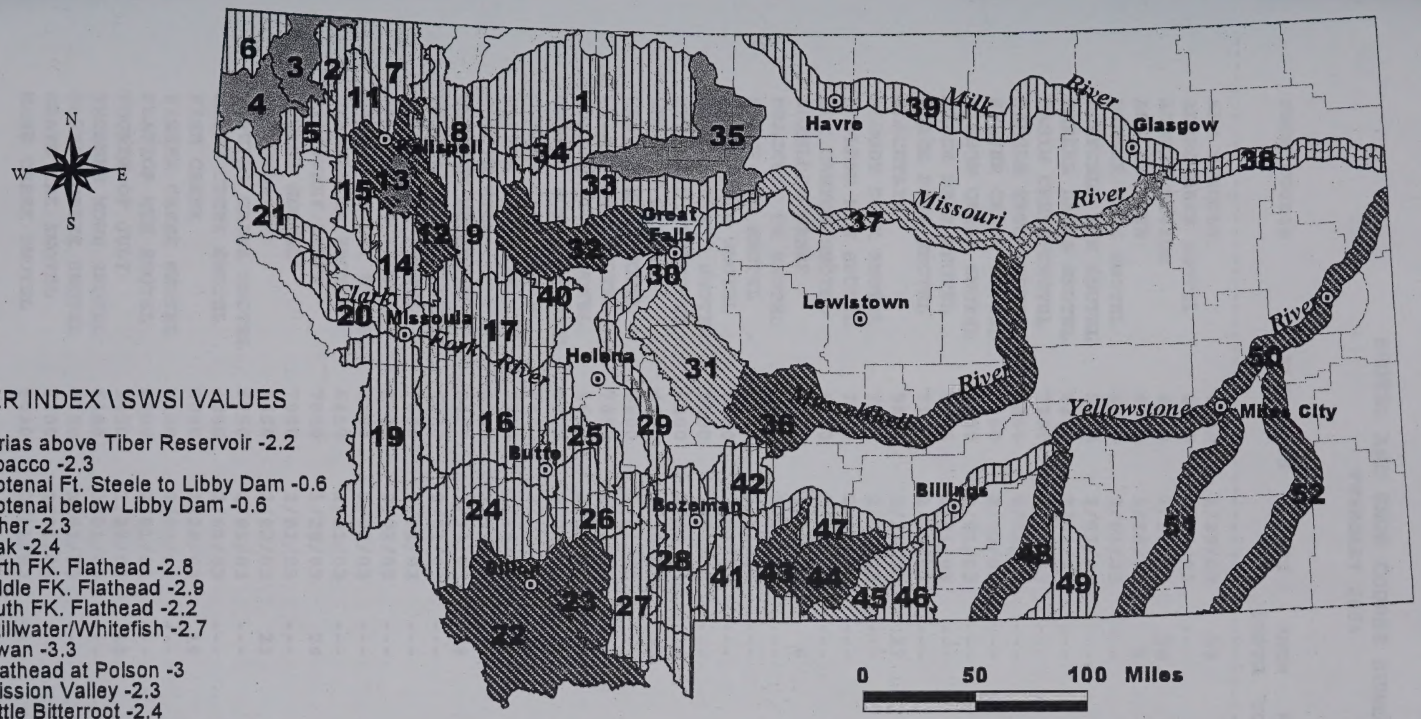
Map #	Forecast Point
1	BADGER CREEK near Browning
2	BEAVER CREEK near Havre
3	BEAVERHEAD RIVER at Barretts
4	CLARK CANYON RES Inflow
5	BIG HOLE RIVER at Wisdom
6	BIG HOLE RIVER near Melrose
7	BIGHORN RIVER near St. Xavier
8	BITTERROOT at Missoula
9	BITTERROOT near Darby
10	BLACKFOOT RIVER near Bonner
11	BOULDER RIVER at Big Timber
12	BOULDER RIVER near Boulder
13	CLARK FK at Whitehorse Rpds
14	CLARK FORK above Milltown
15	CLARK FORK above Missoula
16	CLARK FORK at St. Regis
17	CLARK FORK below Missoula
18	CLARK FORK near Plains
19	CLARKS FORK RIVER near Belfry
21	COMO RESERVOIR Inflow
22	COONEY RESERVOIR Inflow
23	CUT BANK CREEK at Cut Bank
24	DEARBORN near Criag
25	DUPUYER CREEK near Valier
26	ENNIS Reservoir Inflow
27	FISHER RIVER near Libby
28	FLATHEAD at Columbia Falls
29	FLATHEAD Lake Inflow
30	FLINT CREEK below Boulder Ck
31	FLINT CREEK near Southern Cross
32	GALLATIN RIVER at Logan
33	GALLATIN RIVER near Gateway
34	GIBSON Reservoir Inflow
35	HEBGEN Reservoir Inflow
36	HUNGRY HORSE Reservoir Inflow
38	HYALITE RESERVOIR Inflow
39	JEFFERSON RIVER near Three Forks
40	KOOTENAI at Leonia
42	LAKE SHERBURNE Inflow
43	LIBBY RES Inflow
44	LIMA RESERVOIR Inflow
45	LITTLE BIGHORN RIVER near Hardin
46	LITTLE BLACKFOOT near Garrison
47	LOWER WILLOW CK RES Inflow
48	MARIAS RIVER near Shelby
49	MF FLATHEAD near West Glacier
50	MF ROCK CREEK near Philipsburg
52	MILK RIVER at East Cross.
53	MILK RIVER at Western Crossing
54	MISSOURI RIVER at Fort Benton
55	MISSOURI RIVER at Toston
56	MISSOURI RIVER at Virgelle
57	MISSOURI RIVER below Fort Peck
58	MISSOURI RIVER near Landusky
59	MUSSELSHELL at Harlowton
60	MYSTIC LAKE Reservoir Inflow
61	NEVADA CREEK near Finn
62	NF FLATHEAD near Columbia Falls
63	NF MUSSELSHELL near Delpine
64	POWDER RIVER at Moorehead
65	POWDER RIVER near Locate
66	PRICKLY PEAR CREEK near Clancy
67	PROSPECT CREEK at Thompson Falls
68	ROCK CREEK near Clinton
69	RUBY RIVER Reservoir Inflow
70	SF MUSSELSHELL above Martinsdale
71	SHEEP CREEK near White Sulphur Spgs.
72	SHIELDS RIVER near Livingston
73	SKALKAHO CK near Hamilton
74	SMITH RIVER above Eagle Creek
75	ST. MARY RIVER at US/CAN Border
76	ST. MARY RIVER near Babb
77	STILLWATER near Whitefish
78	STILLWATER RIVER near Absarokee
79	SWAN RIVER near Bigfork
80	SWIFT RESERVOIR Inflow
81	TETON near Dutton
82	THOMPSON near Thompson Falls
83	TOBACCO RIVER near Eureka
84	TONGUE RIVER RESERVOIR Inflow
85	TWO MEDICINE RIVER near Browning
87	WF BITTERROOT near Conner
88	WHITEFISH near Kalispell
89	WILLOW CREEK Reservoir Inflow
90	YAAK RIVER near Troy
91	YELLOWSTONE at Lake Outlet
92	YELLOWSTONE RIVER at Billings
93	YELLOWSTONE RIVER at Corwin Spgs
94	YELLOWSTONE RIVER at Miles City
95	YELLOWSTONE RIVER near Livingston
96	YELLOWSTONE RIVER near Sidney



RIVER INDEX \ SWSI VALUES

1 Marias above Tiber Reservoir -2.2
2 Tobacco -2.3
3 Kootenai Ft. Steele to Libby Dam -0.6
4 Kootenai below Libby Dam -0.6
5 Fisher -2.3
6 Yaak -2.4
7 North FK. Flathead -2.8
8 Middle FK. Flathead -2.9
9 South FK. Flathead -2.2
11 Stillwater/Whitefish -2.7
12 Swan -3.3
13 Flathead at Polson -3
14 Mission Valley -2.3
15 Little Bitterroot -2.4
16 Clark Fork above Milltown -2.4
17 Blackfoot -2.9
19 Bitterroot -2.3
20 Clark Fork below Bitterroot -2.5
21 Clark Fork below Flathead -2.8
22 Beaverhead -3.4
23 Ruby -3.9
24 Big Hole -2.2
25 Boulder (Jefferson) -2.3
26 Jefferson -2.5
27 Madison -2.3
28 Gallatin -2.9
29 Missouri above Canyon Ferry -2.5
30 Missouri below Canyon Ferry -2.3
31 Smith -1.9
32 Sun -3.9
33 Teton -2.9
34 Birch/Dupuyer Creeks -2.4
35 Marias -0.8
36 Musselshell -3.3
37 Missouri above Fort Peck -1.3
38 Missouri below Fort Peck -2.7
39 Milk -2.5
40 Dearborn near Craig -2.4
41 Yellowstone above Livingston -2.6
42 Shields -2.8
43 Boulder (Yellowstone) -3.5
44 Stillwater -3.1
45 Rock/Red Lodge Creeks -1.9
46 Clarks Fork -2.8
47 Yellowstone above Bighorn -2.8
48 Bighorn below Bighorn Lake -3.9
49 Little Bighorn -2.4
50 Yellowstone below Bighorn -3.3
51 Tongue -3.4
52 Powder -3.9

Surface Water Supply Index (SWSI) Values

SWSI VALUES

- Extremely Dry -4.0 to -3.0
- Moderately Dry -2.9 to -2.0
- Slightly Dry -1.9 to -1.0
- Near Average -0.9 to 0.9
- Slightly Wet 1.0 to 1.9
- Moderately Wet 2.0 to 2.9
- Extremely Wet 3.0 to 4.0
- SWSI Not Applicable

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Current as of February 1, 2003

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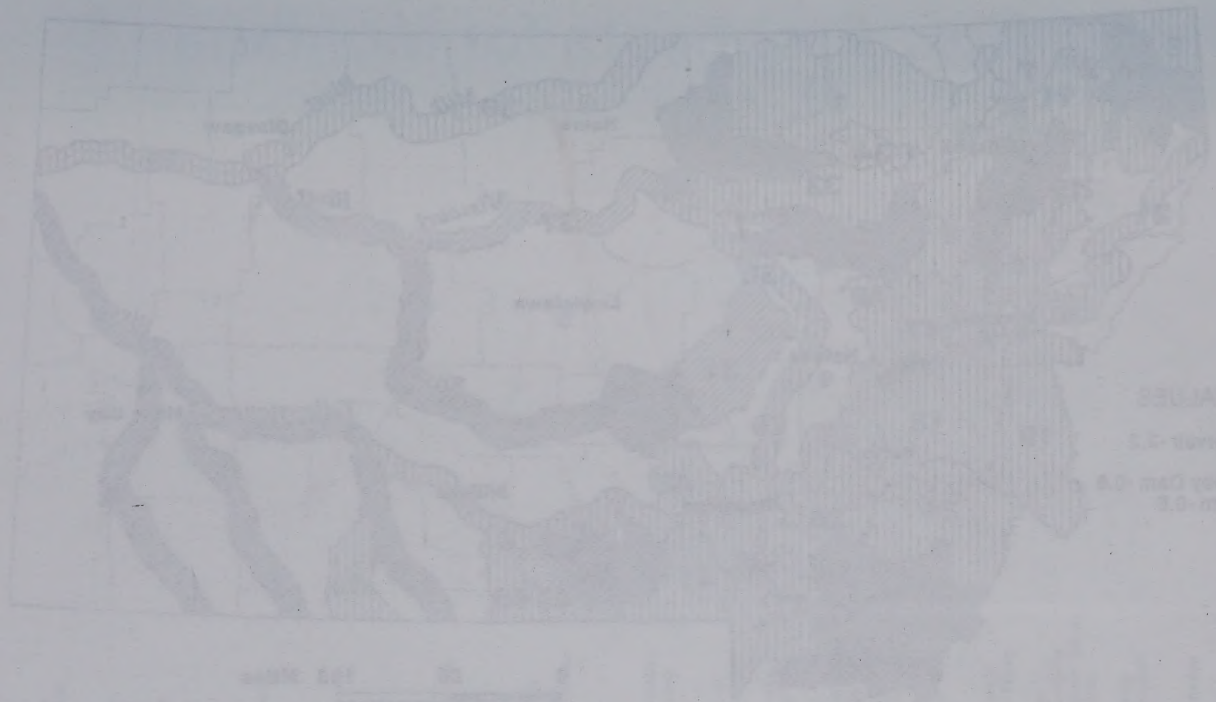


SNOTEL AND SNOW COURSE SUMMARY
FEBRUARY 2003

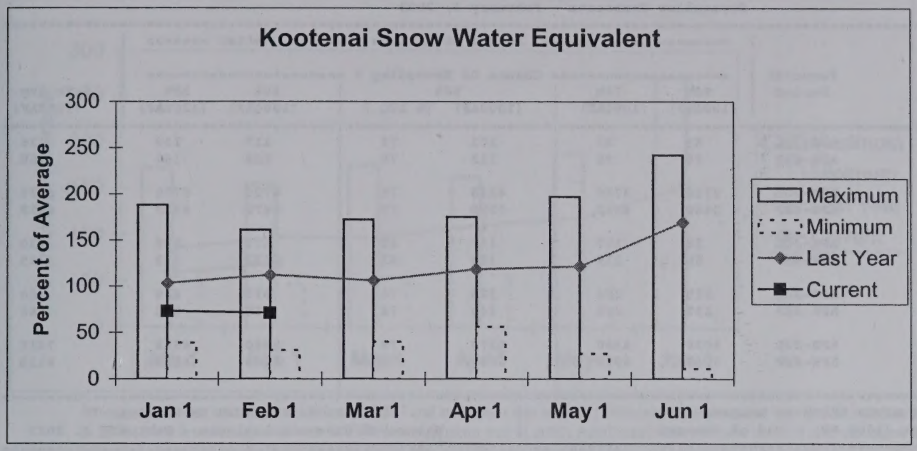
SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 71-00
ABE LINCOLN	4440	1/29/03	23	5.7	13.8	13.7
ALBRO LAKE SNOTEL	8300	2/01/03	---	8.0	8.8	13.1
ASHLEY DIVIDE	4820	1/28/03	10	1.8	4.9	5.1
ASHLEY LAKE	4000	1/28/03	9	1.8	3.0	4.4
BADGER PASS SNOTEL	6900	2/01/03	---	13.0	21.6	22.3
BANFIELD MTN SNOTEL	5600	2/01/03	---	10.0	14.0	13.3
BARKER LAKES SNOTEL	8250	2/01/03	---	7.3	5.8	9.2
BASIN CREEK SNOTEL	7180	2/01/03	---	4.1	3.5	4.9
BEAGLE SPGS SNOTEL	8850	2/01/03	---	4.0	4.3	5.5
BEAVER CREEK SNOTEL	7850	2/01/03	---	8.5	11.7	11.5
BISSON CREEK SNOTEL	4920	2/01/03	---	3.9	6.5	6.8
BLACK BEAR SNOTEL	7950	2/01/03	---	22.5	27.2	25.6
BLACK PINE SNOTEL	7100	2/01/03	---	6.4	4.7	8.0
BLACKTAIL	5650	1/28/03	27	6.2	9.4	9.6
BLOODY DICK SNOTEL	7550	2/01/03	---	8.1	6.0	8.4
BOULDER MTN SNOTEL	7950	2/01/03	---	11.2	13.0	13.4
BOX CANYON SNOTEL	6700	2/01/03	---	4.9	4.7	6.7
BOXELDER CREEK	5100	1/27/03	6	1.0	1.1	5.2
BRACKETT CR SNOTEL	7320	2/01/03	---	11.6	13.4	13.3
BURNT MTN SNOTEL	5880	2/01/03	---	1.4	1.8	--
CALVERT CR SNOTEL	6430	2/01/03	---	5.7	4.9	5.9
CARROT BASIN SNOTEL	9000	2/01/03	---	12.4	17.0	18.1
CHESSMAN RESERVOIR	6200	1/30/03	4	1.0	.6	2.5
CHICKEN CREEK	4060	1/30/03	35	8.8	10.6	11.5
CLOVER MDW SNOTEL	8800	2/01/03	---	8.2	10.5	11.1
COLE CREEK SNOTEL	7850	2/01/03	---	8.6	2.9	9.8
COMBINATION SNOTEL	5600	2/01/03	---	4.0	2.1	3.4
COPPER BOTTOM SNOTEL	5200	2/01/03	---	5.4	8.3	8.0
COPPER CAMP SNOTEL	6950	2/01/03	---	16.4	24.6	21.3
COPPER MOUNTAIN	7700	1/25/03	21	3.5	5.8	7.0
COYOTE HILL	4200	1/31/03	16	3.6	5.0	7.3
CREVICE MOUNTAIN	8400	1/29/03	19	4.2	6.4	7.6
CRYSTAL LAKE SNOTEL	6050	2/01/03	---	5.9	5.4	8.1
DAISY PEAK SNOTEL	7600	2/01/03	---	4.5	5.9	6.7
DALY CREEK SNOTEL	5780	2/01/03	---	6.8	5.1	7.4
DARKHORSE LK. SNOTEL	8700	2/01/03	---	17.7	17.6	20.4
DEADMAN CR SNOTEL	6450	2/01/03	---	5.2	4.8	7.1
DISCOVERY BASIN	7050	1/28/03	26	5.4	4.4	6.6
DIVIDE SNOTEL	7800	2/01/03	---	4.4	5.3	6.9
DIX HILL	6400	2/02/03	23	4.6	5.0	7.6
DUPUYER CREEK SNOTEL	5750	2/01/03	---	1.4	2.4	7.3
EMERY CREEK SNOTEL	4350	2/01/03	---	7.5	8.6	10.5
FISH CREEK	8000	1/28/03	19	4.0	4.0	5.8
FISHER CREEK SNOTEL	9100	2/01/03	---	20.6	20.2	23.8
FLATTOP MTN SNOTEL	6300	2/01/03	---	25.8	33.1	31.8
FOURTH OF JULY	3450	1/29/03	13	3.2	6.1	6.5
FROHNER MDWS SNOTEL	6480	2/01/03	---	4.5	2.7	5.0
GARVER CREEK SNOTEL	4250	2/01/03	---	6.4	7.5	7.3
GRAVE CRK SNOTEL	4300	2/01/03	---	9.3	10.8	11.7
HAND CREEK SNOTEL	5030	2/01/03	---	4.9	6.7	8.6

SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 71-00
HAWKINS LAKE SNOTEL	6450	2/01/03	---	14.3	19.5	18.4
HEBGEN DAM	6550	1/28/03	27	4.8	6.7	8.2
HELL ROARING DIVIDE	5770	1/30/03	52	20.7	20.2	20.7
HERRIG JUNCTION	4850	1/30/03	53	15.2	19.9	18.1
HOLBROOK	4530	1/29/03	10	2.0E	6.5	7.2
HOODOO BASIN SNOTEL	6050	2/01/03	---	20.1	32.9	30.1
INTERGAARD	6450	1/28/03	16	3.2	2.0	4.8
JOHNSON PARK	6450	1/30/03	15	2.2	3.0	3.9
KRAFT CREEK SNOTEL	4750	2/01/03	---	7.3	8.7	10.9
LAKEVIEW RDG. SNOTEL	7400	2/01/03	---	5.3	7.3	7.2
LEMHI RIDGE SNOTEL	8100	2/01/03	---	6.9	4.9	6.9
LICK CREEK SNOTEL	6860	2/01/03	---	5.3	3.3	7.4
LONE MOUNTAIN SNOTEL	8880	2/01/03	---	8.5	11.0	12.1
LOWER TWIN SNOTEL	7900	2/01/03	---	9.1	7.8	12.0
LUBRECHT SNOTEL	4680	2/01/03	---	3.4	3.5	4.2
LUBRECHT FOREST NO 3	5450	1/29/03	9	1.6	3.0	4.6
LUBRECHT FOREST NO 4	4650	1/29/03	4	1.0	1.3	2.5
LUBRECHT FOREST NO 6	4040	1/29/03	6	1.2	2.0	2.8
LUBRECHT HYDROPLOT	4200	1/29/03	9	2.1	3.1	4.2
MADISON PLT SNOTEL	7750	2/01/03	---	11.8	14.9	16.2
MANY GLACIER SNOTEL	4900	2/01/03	---	5.6	12.0	11.2
MARIAS PASS	5250	1/30/03	22	4.6	10.6	11.7
MONUMENT PK SNOTEL	8850	2/01/03	---	11.2	13.6	14.2
MOSS PEAK SNOTEL	6780	2/01/03	---	17.8	22.0	24.6
MOULTON RESERVOIR	6850	1/28/03	20	4.3	3.0	5.2
MT LOCKHART SNOTEL	6400	2/01/03	---	9.3	11.6	14.2
MULE CREEK SNOTEL	8300	2/01/03	---	8.8	8.8	10.4
N.E. ENTRANCE SNOTEL	7350	2/01/03	---	6.8	4.6	7.7
NEVADA RIDGE SNOTEL	7020	2/01/03	---	8.6	7.8	10.1
NEW WORLD	6900	1/29/03	29	6.6	6.8	9.0
NEWTON MOUNTAIN	5600	1/29/03	49	15.0	24.0	22.6
NEZ PERCE CMP SNOTEL	5650	2/01/03	---	8.3	9.3	9.9
NEZ PERCE CREEK	6600	1/25/03	17	2.9	2.1	4.3
N.F. ELK CR SNOTEL	6250	2/01/03	---	6.1	6.4	8.0
NF JOCKO SNOTEL	6330	2/01/03	---	22.5	33.1	30.1
NOISY BASIN SNOTEL	6040	2/01/03	---	19.3	26.9	27.0
OPHIR PARK	7150	2/02/03	32	7.2	7.0	10.6
PETERSON MDW SNOTEL	7200	2/01/03	---	6.0	3.1	6.1
PICKFOOT CRK SNOTEL	6650	2/01/03	---	6.5	5.3	7.9
PIKE CREEK SNOTEL	5930	2/01/03	---	10.0	15.0	17.8
PIPESTONE PASS	7200	1/26/03	10	2.0	2.0	3.2
PLACER BASIN SNOTEL	8830	2/01/03	---	8.4	9.0	11.7
POORMAN CR SNOTEL	5100	2/01/03	---	17.8	28.8	21.4
PORCUPINE SNOTEL	6500	2/01/03	---	3.8	3.4	4.5
RED TOP	5260	1/27/03	43	12.8	18.7	18.4
ROCKER PEAK SNOTEL	8000	2/01/03	---	7.0	6.1	9.1
ROCKY BOY SNOTEL	4700	2/01/03	---	1.0	1.5	3.7
SACAJAWEA SNOTEL	6550	2/01/03	---	7.7	8.8	8.9
SADDLE MTN SNOTEL	7900	2/01/03	---	7.7	15.8	17.3
S.F. SHIELDS SNOTEL	8100	2/01/03	---	6.9	7.7	10.7
SHORT CREEK SNOTEL	7000	2/01/03	---	3.0	2.8	3.9
SHOWER FALLS SNOTEL	8100	2/01/03	---	10.4	11.2	14.0
SKALKAHO SNOTEL	7260	2/01/03	---	13.5	15.0	16.0
SLEEPING WOMAN SNTL	6150	2/01/03	---	7.9	9.3	10.6

SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 71-00
SPOTTED BEAR MTN.	7000	1/29/03	24	5.4	7.1	10.1
SPUR PARK SNOTEL	8100	2/01/03	---	10.3	11.7	14.6
STAHL PEAK SNOTEL	6030	2/01/03	---	19.9	26.4	24.1
STORM LAKE	7780	1/28/03	29	6.1	5.2	8.3
STRYKER BASIN	6180	1/30/03	56	17.6	25.0	21.3
STUART MOUNTAIN SNTL	7400	2/01/03	---	17.1	22.7	22.8
SUCKER CREEK	3960	1/27/03	0	.0	.4	.5
TAYLOR ROAD	4080	1/27/03	0	.0	.4	2.6
TEN MILE LOWER	6600	1/30/03	17	3.4	2.4	4.7
TEN MILE MIDDLE	6800	1/30/03	22	4.2	4.5	7.1
TEPEE CREEK SNOTEL	8000	2/01/03	---	6.5	9.0	8.5
TIZER BASIN SNOTEL	6840	2/01/03	---	4.7	5.5	6.5
TRINKUS LAKE	6100	1/29/03	62	18.0	24.6	26.6
TRUMAN CREEK	4060	2/02/03	6	2.2	2.9	3.5
TV MOUNTAIN	6800	1/29/03	27	6.3	11.1	12.0
TWELVEMILE SNOTEL	5600	2/01/03	---	8.9	12.0	12.8
TWENTY-ONE MILE	7150	1/29/03	32	6.8	10.1	11.1
TWIN LAKES SNOTEL	6400	2/01/03	---	21.9	29.5	27.5
UPPER HOLLAND LAKE	6200	1/29/03	51	14.4	21.6	23.7
WALDRON SNOTEL	5600	2/01/03	---	4.3	4.9	8.0
WARM SPRINGS SNOTEL	7800	2/01/03	---	12.4	11.6	13.8
WEASEL DIVIDE	5450	1/29/03	43	13.5	24.0	21.5
WEST YELL'ST SNOTEL	6700	2/01/03	---	6.0	7.1	8.6
WHISKEY CREEK SNOTEL	6800	2/01/03	---	7.9	10.5	11.1
WHITE MILL SNOTEL	8700	2/01/03	---	15.9	13.2	16.1
WOOD CREEK SNOTEL	5960	2/01/03	---	3.2	5.2	6.3

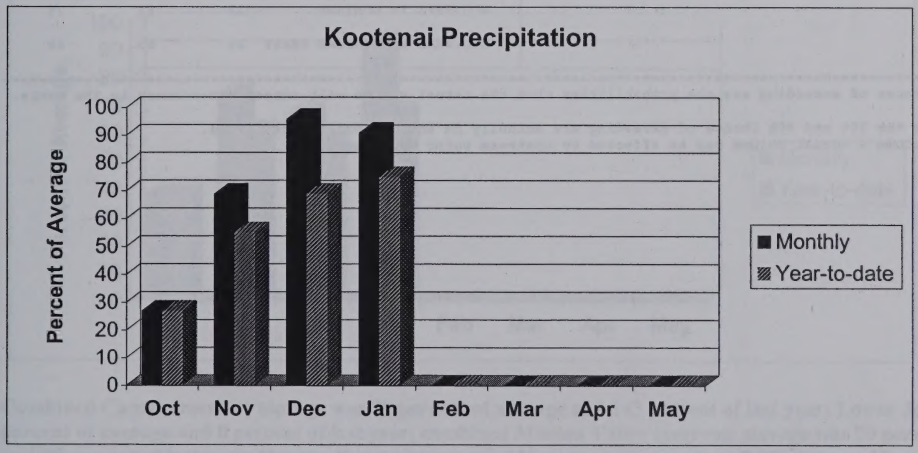
Kootenai River Basin in Montana

Snowpack conditions in the Kootenai River Basin were below average. Snow water content was 71 percent of average and 63 percent of last year. Snow water content in the Kootenay in Canada was 60 percent of average and 60 percent of last year.



January maximum swe was established in 1997 and minimum was in 1977; February maximum swe was in 1997 and minimum swe was in 1977; March maximum swe was in 1972 and minimum swe was in 1977; April maximum swe was in 1974 and minimum swe was in 2001; May maximum swe was in 1974 and minimum swe was in 1977; and June maximum swe was in 1974 and minimum swe was in 1992. Average is for the period 1971 through 2000.

Mountain precipitation during January was 91 percent of average and 60 percent of last year. Valley precipitation during January was 87 percent of average and 95 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2002, was 75 percent of average and 61 percent of last year.



Lake Koocanusa storage was 152 percent of average and 117 percent of last year.

Surface Water Supply Index (SWSI) was -2.3 in the Tobacco River; -0.6 in the Kootenai Ft. Steele to Libby Dam; -0.6 in the Kootenai River below Libby Dam; -2.3 in the Fisher River; and -2.4 in the Yaak River.

KOOTENAI RIVER BASIN in Montana
Streamflow Forecasts - February 1, 2003

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
TOBACCO RIVER nr Eureka	APR-JUL	63	85	101	74	117	139	136
	APR-SEP	70	95	112	75	129	154	150
LIBBY RES Inflow (1,2)	APR-JUL	2710	3760	4240	75	4720	5770	5638
	APR-SEP	3460	4510	4990	75	5470	6520	6638
FISHER RIVER nr Libby	APR-JUL	58	109	143	62	177	229	230
	APR-SEP	66	119	155	63	193	243	245
YAAK RIVER nr Troy	APR-JUL	215	280	325	74	370	435	440
	APR-SEP	225	295	340	74	385	455	460
KOOTENAI at Leonia (1,2)	APR-JUL	4030	4880	5270	75	5660	6510	7035
	APR-SEP	5880	6020	6080	75	6140	6280	8125

KOOTENAI RIVER BASIN in Montana
Reservoir Storage (1000 AF) - End of January

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
LAKE KOOCANUSA	5748.0	3655.0	3127.0	2400.9

KOOTENAI RIVER BASIN in Montana
Watershed Snowpack Analysis - February 1, 2003

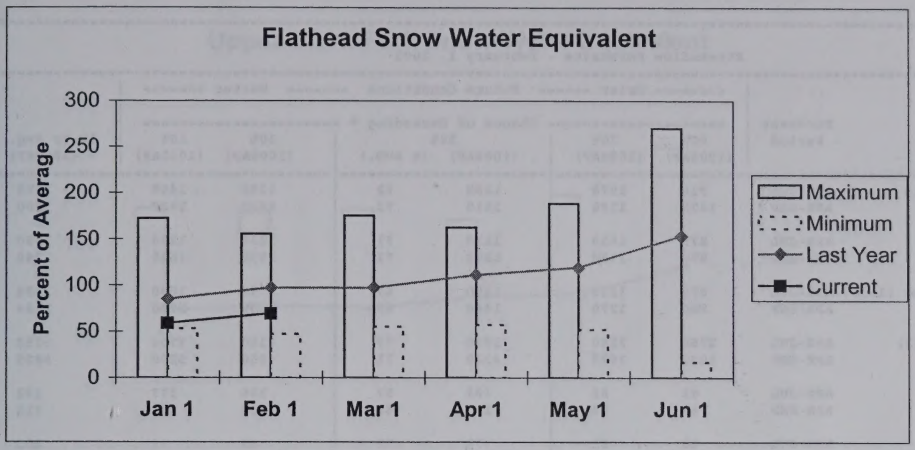
Watershed	Number of Data Sites	This Year as % of Last Yr	Average
KOOTENAY in CANADA	16	66	64
KOOTENAI MAINTSTEM	3	58	77
TOBACCO	3	70	75
FISHER	2	52	48
YAAK	5	68	71
KOOTENAI in MONTANA	13	63	71
KOOTENAI ab BONNERS FERRY	29	65	68

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.

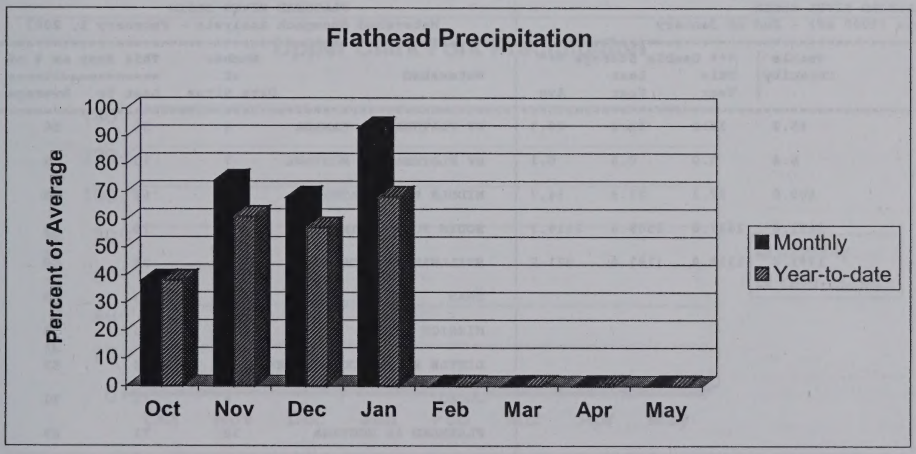
Flathead River Basin

Snowpack conditions in the Flathead River Basin were well below average. Snow water content was 69 percent of average and 71 percent of last year.



January maximum swe was established in 1997 and minimum was in 2001; February maximum swe was in 1972 and minimum was in 2001; March maximum swe was in 1972 and minimum was in 2001; April maximum swe was in 1972 and minimum was in 2001; May maximum swe was in 1972 and minimum was in 1992; and June maximum swe was in 1974 and minimum was in 1992. Average is for the period 1971 through 2000.

Mountain precipitation during January was 93 percent of average and 69 percent of last year. Valley precipitation during January was 92 percent of average and 120 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2002, was 68 percent of average and 68 percent of last year.



Combined Camas reservoir storage was 79 percent of average and 143 percent of last year; Lower Jocko Lake was 0 percent of average and 0 percent of last year; combined Mission Valley reservoir storage was 79 percent of average and 98 percent of last year; Hungry Horse storage was 110 percent of average and 97 percent of last year; and Flathead Lake storage was 125 percent of average and 103 percent of last year.

Surface Water Supply Index (SWSI) was -2.8 in the North Fork Flathead River; -2.9 in the Middle Fork Flathead River; -2.2 in the South Fork Flathead River; -2.7 in the Flathead River at Columbia Falls; -2.7 in the Stillwater/Whitefish Rivers; -3.3 in the Swan River; -3.0 in the Flathead River at Polson; -2.3 in the Mission Valley; and -2.4 in the Little Bitterroot River.

FLATHEAD RIVER BASIN
Streamflow Forecasts - February 1, 2003

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
NF FLATHEAD nr Columbia Falls	APR-JUL	910	1070	1180	72	1290	1450	1630
	APR-SEP	1020	1190	1310	73	1430	1600	1800
MF FLATHEAD nr West Glacier	APR-JUL	875	1030	1130	71	1230	1390	1590
	APR-SEP	970	1130	1240	71	1350	1510	1740
HUNGRY HORSE Reservoir Inflow (1,2)	APR-JUL	870	1220	1380	69	1540	1890	1994
	APR-SEP	860	1270	1460	69	1650	2060	2124
FLATHEAD at Columbia Falls (2)	APR-JUL	2750	3360	3770	70	4180	4790	5355
	APR-SEP	3020	3670	4110	71	4550	5200	5825
STILLWATER nr Whitefish	APR-JUL	41	82	109	57	136	177	192
	APR-SEP	46	90	119	57	148	192	210
WHITEFISH nr Kalispell	APR-JUL	48	63	73	72	83	98	101
	APR-SEP	54	71	83	73	95	112	114
ASHLEY CREEK nr Marion (2)	APR-JUL	1.65	2.28	2.70	38	3.80	5.50	7.19
	MARCH			0.50	49			1.02
SWAN RIVER nr Bigfork	APR-JUL	235	315	365	65	415	495	565
	APR-SEP	265	355	415	64	475	565	645
FLATHEAD Lake Inflow (1,2)	APR-JUL	3100	3950	4330	70	4710	5560	6200
	APR-SEP	2860	4120	4690	70	5260	6520	6713

FLATHEAD RIVER BASIN
Reservoir Storage (1000 AF) - End of January

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
CAMAS (4)	45.2	16.0	11.2	20.3
LOWER JOCKO LAKE	6.4	0.0	0.0	0.1
MISSION VALLEY (8)	100.0	27.3	27.9	34.7
HUNGRY HORSE	3451.0	2427.0	2503.0	2214.7
FLATHEAD LAKE	1791.0	1218.0	1181.0	971.2

FLATHEAD RIVER BASIN
Watershed Snowpack Analysis - February 1, 2003

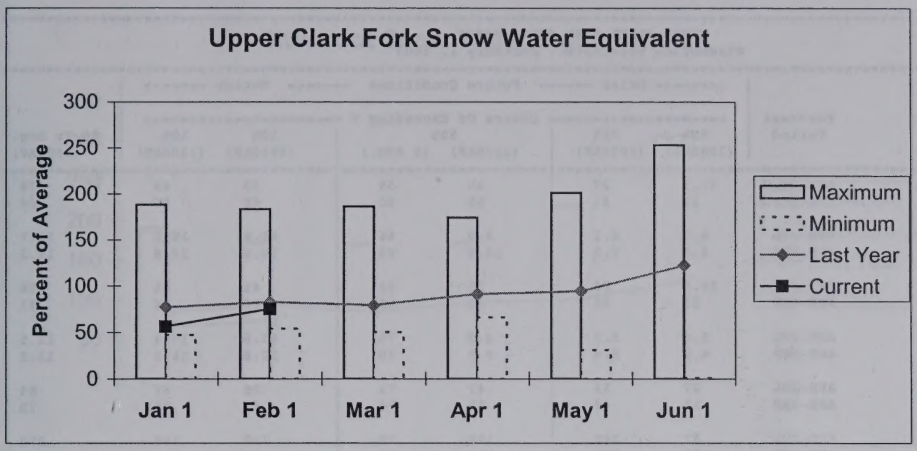
Watershed	Number of Data Sites	This Year as % of Last Yr	Average
NF FLATHEAD in CANADA	4	58	50
NF FLATHEAD in MONTANA	7	75	79
MIDDLE FORK FLATHEAD	5	69	65
SOUTH FORK FLATHEAD	6	70	63
STILLWATER-WHITEFISH	7	78	79
SWAN	6	73	69
MISSION VALLEY	3	74	68
LITTLE BITTERROOT-ASHLEY	4	59	53
JOCKO	4	71	71
FLATHEAD in MONTANA	30	71	69
FLATHEAD RIVER BASIN	34	70	67

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.

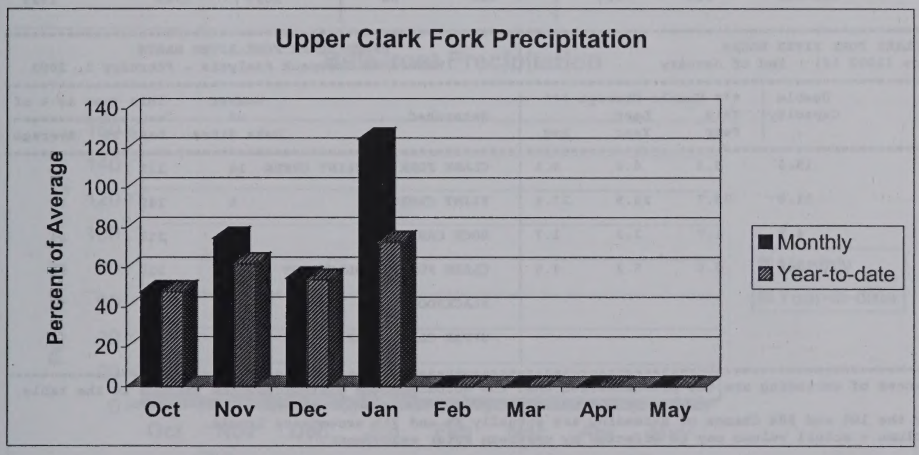
Upper Clark Fork River Basin

Snowpack conditions in the Upper Clark Fork River Basin were below average. Snow water content was 75 percent of average and 91 percent of last year.



January maximum swe was established in 1997 and minimum swe was in 1977; February maximum was in 1972 and minimum swe was in 1977; March maximum swe was in 1972 and minimum swe was in 1977; April maximum swe was in 1972 and minimum was in 1994; May maximum swe was in 1972 and minimum swe was in 1977; and June maximum swe was in 1975 and minimum swe was in 1987. Average is for the period 1971 through 2000.

Mountain precipitation during January was 126 percent of average and 117 percent of last year. Valley precipitation during January was 116 percent of average and 179 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2002, was 73 percent of average and 82 percent of last year.



East Fork Rock Creek storage was 58 percent of average and 110 percent of last year; Georgetown Lake storage was 105 percent of average and 107 percent of last year; Lower Willow Creek storage was 100 percent of average and 131 percent of last year; and Nevada Creek storage was 126 percent of average and 112 percent of last year.

Surface Water Supply Index (SWSI) was -2.4 in the Clark Fork River above Milltown; and -2.9 in the Blackfoot River.

UPPER CLARK FORK RIVER BASIN
Streamflow Forecasts - February 1, 2003

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter ======>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
LITTLE BLACKFOOT nr Garrison	APR-JUL	17.1	27	45	59	63	89	76
	APR-SEP	21	31	50	60	69	96	84
FLINT CREEK nr Southern Cross	APR-JUL	4.0	6.1	9.0	66	11.9	16.1	13.7
	APR-SEP	4.6	7.0	10.5	65	14.0	18.8	16.2
FLINT CREEK blw Boulder Ck	APR-JUL	16.9	28	35	63	46	61	56
	APR-SEP	23	36	45	63	58	76	71
LOWER WILLOW CK RES Inflow	APR-JUL	3.6	5.8	8.8	70	11.8	16.3	12.5
	APR-SEP	4.2	6.4	9.5	70	12.6	16.9	13.5
MF ROCK CREEK nr Philipsburg	APR-JUL	27	39	47	73	55	67	64
	APR-SEP	31	44	53	74	62	75	72
ROCK CREEK nr Clinton	APR-JUL	87	148	190	70	230	295	270
	APR-SEP	108	175	220	72	265	330	305
CLARK FORK abv Milltown	APR-JUL	179	250	365	60	480	645	605
	APR-SEP	211	295	420	60	545	735	705
NEVADA CREEK nr Finn	APR-JUL	4.3	6.3	10.0	58	13.7	19.2	17.3
	APR-SEP	4.9	6.9	10.8	57	14.7	20	18.9
BLACKFOOT RIVER nr Bonner	APR-JUL	190	345	455	57	565	720	805
	APR-SEP	225	390	505	57	620	785	892
CLARK FORK abv Missoula	APR-JUL	430	660	815	58	965	1195	1415
	APR-SEP	510	755	925	58	1095	1345	1595

UPPER CLARK FORK RIVER BASIN
Reservoir Storage (1000 AF) - End of January

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
EAST FORK ROCK CREEK	15.6	5.3	4.8	9.1
GEORGETOWN LAKE	31.0	28.7	26.9	27.4
LOWER WILLOW CREEK	4.9	1.7	1.3	1.7
NEVADA CREEK	12.6	5.8	5.2	4.6

UPPER CLARK FORK RIVER BASIN
Watershed Snowpack Analysis - February 1, 2003

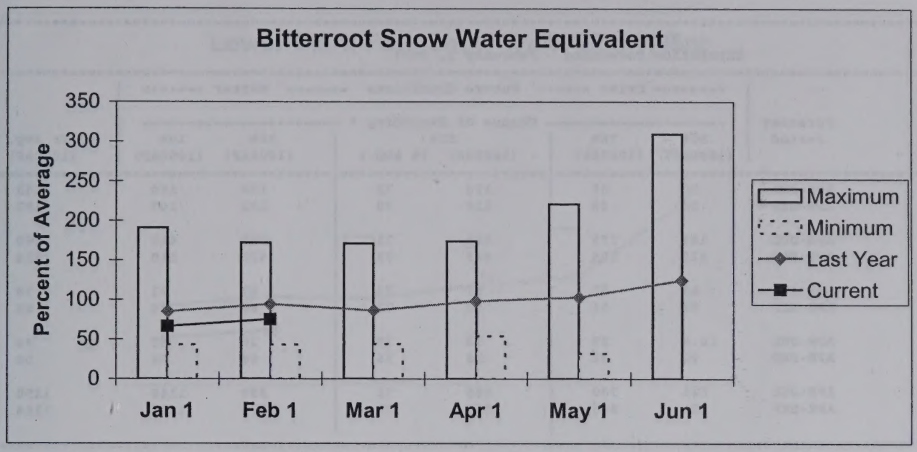
Watershed	Number of Data Sites	This Year as % of Last Yr	Average
CLARK FORK ab FLINT CREEK	10	111	77
FLINT CREEK	6	145	84
ROCK CREEK	3	110	84
CLARK FORK ab BLACKFOOT	16	116	80
BLACKFOOT	14	76	70
UPPER CLARK FORK BASIN	28	91	75

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.

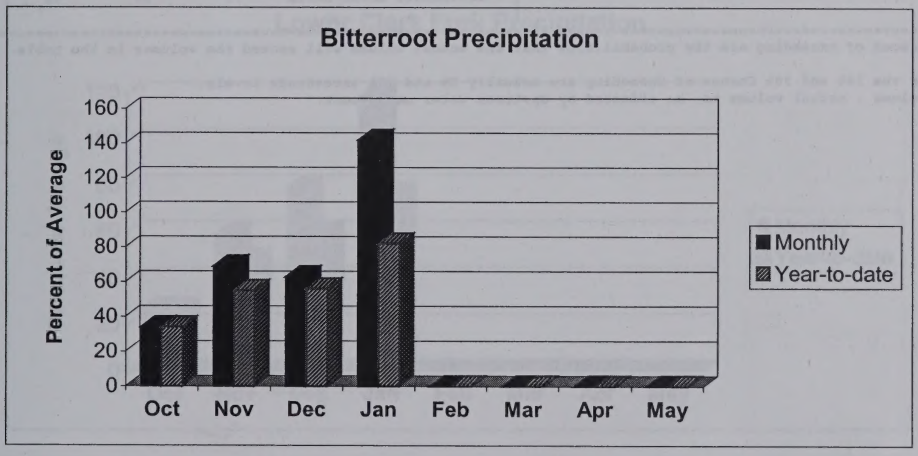
Bitterroot River Basin

Snowpack conditions in the Bitterroot River Basin were below average. Snow water content was 75 percent of average and 80 percent of last year.



January maximum swe was established in 1997 and minimum swe in 1977; February maximum swe was in 1972 and minimum was in 1977; March maximum swe was in 1972 and minimum swe was in 1977; April maximum swe was in 1972 and minimum swe was in 2001; May maximum swe was in 1972 and minimum swe was in 1987; and June maximum swe was 1972 and 1974 and minimum swe was in 1987, 1992, 1994, and 2001. Average is for the period 1971 through 2000.

Mountain precipitation during January was 134 percent of average and 120 percent of last year. Valley precipitation during January was 209 percent of average and 345 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2002, was 82 percent of average and 81 percent of last year.



Painted Rocks Lake storage was 80 percent of average and 72 percent of last year and Como storage was 45 percent of average and 56 percent of last year.

Surface Water Supply Index (SWSI) was -2.3 in the Bitterroot River.

BITTERROOT RIVER BASIN
Streamflow Forecasts - February 1, 2003

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
WF BITTERROOT nr Conner (2)	APR-JUL	50	80	100	70	120	150	143
	APR-SEP	55	88	110	70	132	165	157
BITTERROOT nr Darby	APR-JUL	185	270	325	71	380	465	460
	APR-SEP	220	305	365	71	425	510	514
COMO RESERVOIR Inflow	APR-JUL	43	51	57	73	63	71	78
	APR-SEP	46	54	60	73	66	74	82
SKALKAHO CK nr Hamilton	APR-JUL	18.0	27	33	75	39	48	44
	APR-SEP	22	32	38	76	44	54	50
BITTERROOT at Missoula	APR-JUL	625	780	885	71	990	1140	1250
	APR-SEP	690	855	965	71	1075	1235	1364

BITTERROOT RIVER BASIN
Reservoir Storage (1000 AF) - End of January

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
PAINTED ROCKS LAKE	31.7	5.6	7.8	7.0
COMO	34.9	5.0	9.0	11.1

BITTERROOT RIVER BASIN
Watershed Snowpack Analysis - February 1, 2003

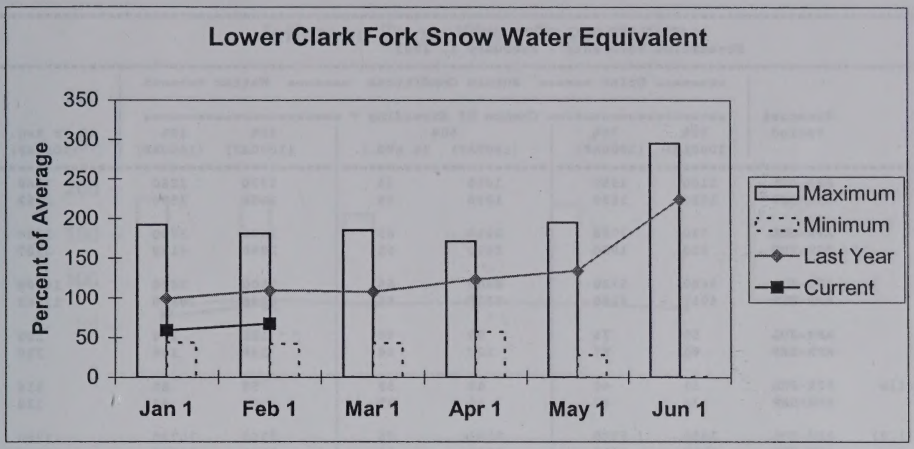
Watershed	Number of Data Sites	This Year as % of Last Yr	Average
WEST FORK BITTERROOT	2	64	59
EAST SIDE BITTERROOT	3	78	69
WEST SIDE BITTERROOT	3	79	78
BITTERROOT RIVER BASIN	7	80	75

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.

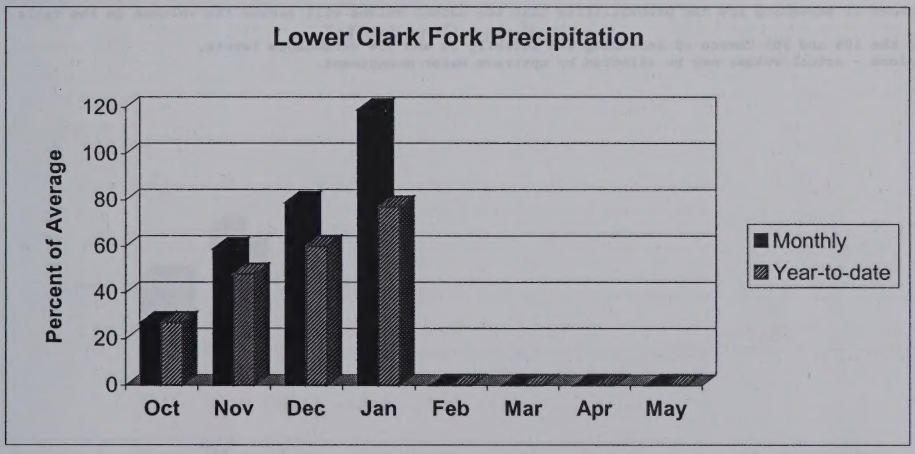
Lower Clark Fork River Basin

Snowpack conditions in the Lower Clark Fork River Basin were well below average. Snow water content was 67 percent of average and 61 percent of last year.



January maximum swe was established in 1997 and minimum swe was in 1977; February maximum swe was in 1972 and minimum swe was in 1977; March maximum swe was in 1972 and minimum was in 1977; April maximum swe was in 1972 and minimum swe was in 1981; May maximum swe was in 1972 and minimum swe was in 1977; and June maximum swe was in 1974 and minimum swe was in 1977. Average is for the period 1971 through 2000.

Mountain precipitation during January was 122 percent of average and 91 percent of last year. Valley precipitation during January was 108 percent of average and 88 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2002, was 77 percent of average and 65 percent of last year.



Noxon Rapids storage was 106 percent of average and 103 percent of last year.

Surface Water Supply Index (SWSI) was -2.5 in the Clark Fork River below Bitterroot River and -2.8 in the Clark Fork River below Flathead River.

LOWER CLARK FORK RIVER BASIN
Streamflow Forecasts - February 1, 2003

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
CLARK FORK blw Missoula	APR-JUL	1100	1450	1690	64	1930	2280	2660
	APR-SEP	1250	1630	1890	64	2150	2530	2962
CLARK FORK at St. Regis (1)	APR-JUL	740	1760	2220	63	2680	3700	3520
	APR-SEP	820	1950	2470	63	2990	4120	3907
CLARK FORK nr Plains (1,2)	APR-JUL	3660	5720	6660	66	7600	9660	10100
	APR-SEP	4010	6280	7310	66	8340	10610	11060
THOMPSON nr Thompson Falls	APR-JUL	55	76	90	44	122	170	205
	APR-SEP	65	87	102	44	136	186	230
PROSPECT CREEK at Thompson Falls	APR-JUL	31	40	45	39	59	80	116
	APR-SEP	34	42	48	39	63	85	124
CLARK FK at Whitehorse Rpds (1,2)	APR-JUL	3850	6220	7290	65	8360	10730	11280
	APR-SEP	4230	6830	8010	64	9190	11790	12460

LOWER CLARK FORK RIVER BASIN
Reservoir Storage (1000 AF) - End of January

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
NOXON RAPIDS	335.0	329.5	320.3	310.9

LOWER CLARK FORK RIVER BASIN
Watershed Snowpack Analysis - February 1, 2003

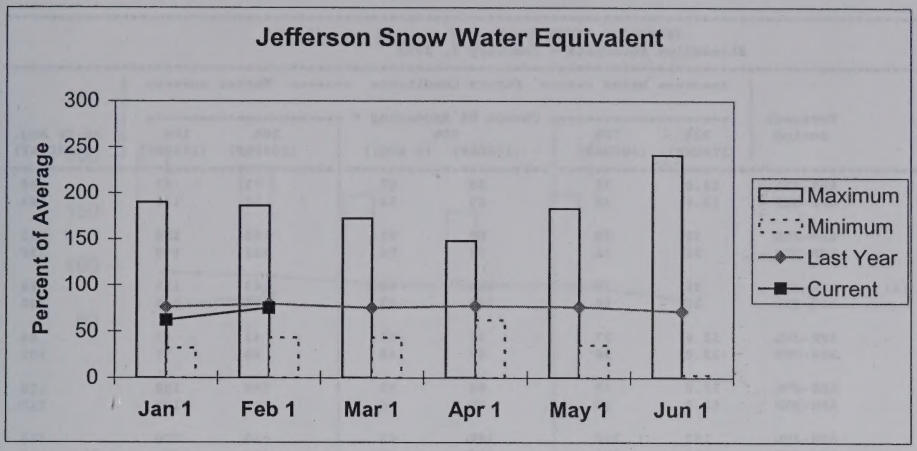
Watershed	Number of Data Sites	This Year as % of Last Yr	This Year as % of Average
LOWER CLARK FORK BASIN	8	61	67

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.

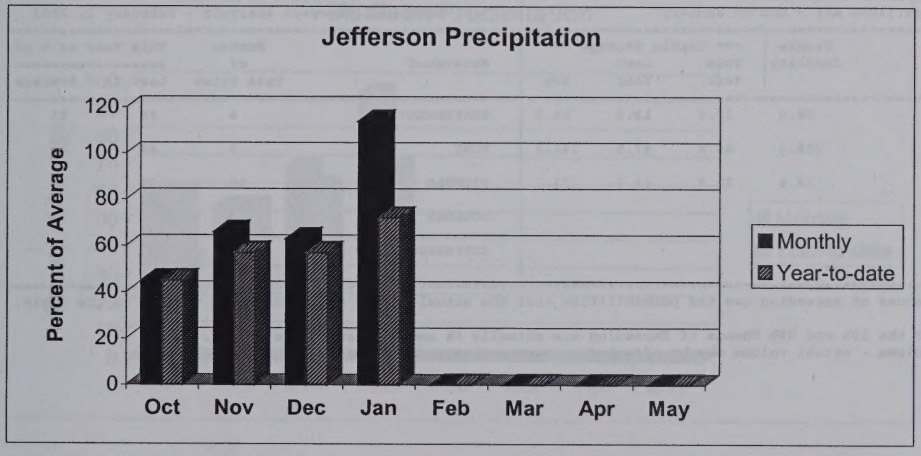
Jefferson River Basin

Snowpack conditions in the Jefferson River Basin were below average. Snow water content was 75 percent of average and 97 percent of last year.



January maximum swe was established in 1997 and minimum swe was in 1977; February maximum swe was in 1997 and minimum was in 1977; March maximum swe was in 1972 and minimum was in 1977; April maximum swe was in 1997 and minimum was in 1977; May maximum swe was in 1975 and minimum swe was in 1977; and June maximum swe was in 1982 and minimum in 1987. Average is for the period 1971 through 2000.

Mountain precipitation during January was 115 percent of average and 136 percent of last year. Valley precipitation during January was 105 percent of average and 79 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2002, was 72 percent of average and 83 percent of last year.



Lima storage was 35 percent of average and 89 percent of last year; Clark Canyon storage was 35 percent of average and 73 percent of last year; and Ruby River storage was 96 percent of average and 118 percent of last year.

Surface Water Supply Index (SWSI) was -3.4 in the Beaverhead River; -3.9 in the Ruby River; -2.2 in the Big Hole River; -2.3 in the Boulder River; and -2.5 in the Jefferson River as a whole.

JEFFERSON RIVER BASIN
Streamflow Forecasts - February 1, 2003

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter ======>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
LIMA RESERVOIR Inflow (2)	APR-JUL	13.0	38	55	57	72	97	96
	APR-SEP	10.0	40	60	58	80	110	104
CLARK CANYON Inflow (2)	APR-JUL	32	60	80	61	100	128	131
	APR-SEP	26	62	87	56	112	148	156
BEAVERHEAD RIVER at Barretts (2)	APR-JUL	29	77	110	66	143	191	168
	APR-SEP	28	86	125	63	164	224	200
RUBY RIVER Reservoir Inflow	APR-JUL	11.6	27	37	44	47	62	84
	APR-SEP	19.0	36	48	48	60	77	101
BIG HOLE RIVER at Wisdom	APR-JUL	10.0	43	65	59	103	158	110
	APR-SEP	12.0	50	75	64	115	173	117
BIG HOLE RIVER nr Melrose	APR-JUL	152	290	385	63	480	620	610
	APR-SEP	165	320	420	64	520	675	660
BOULDER RIVER nr Boulder	APR-JUL	8.6	24	42	54	60	86	78
	APR-SEP	9.3	26	45	53	64	92	85
WILLOW CREEK Reservoir Inflow	APR-JUL	3.0	6.6	9.0	50	13.9	21	17.9
	APR-SEP	2.9	7.1	10.0	50	15.7	24	20
JEFFERSON RIVER nr Three Forks (2)	APR-JUL	27	230	365	47	500	705	780
	APR-SEP	37	255	400	47	545	765	860

JEFFERSON RIVER BASIN
Reservoir Storage (1000 AF) - End of January

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
LIMA	84.0	12.0	13.5	34.0
CLARK CANYON	255.6	49.6	67.5	141.1
RUBY RIVER	38.8	22.8	19.4	23.7

JEFFERSON RIVER BASIN
Watershed Snowpack Analysis - February 1, 2003

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
BEAVERHEAD	8	95	81
RUBY	5	93	70
BIGHOLE	10	99	79
BOULDER	8	109	71
JEFFERSON RIVER BASIN	26	97	75

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

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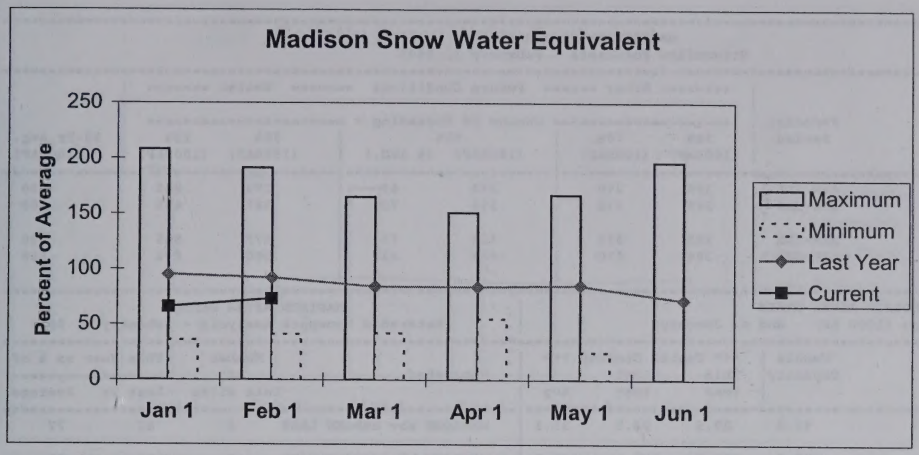
(2) - The value is natural volume - actual volume may be affected by upstream water management.

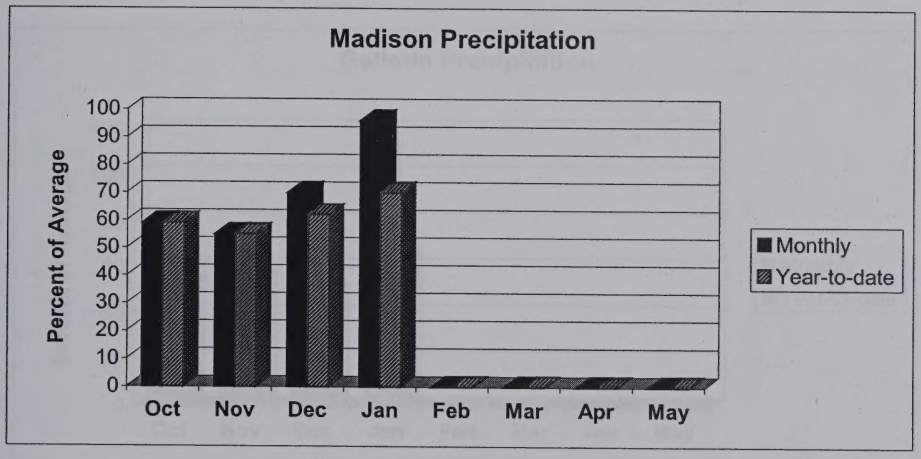
Madison River Basin

Snowpack conditions in the Madison River Basin were below average. Snow water content was 73 percent of average and 81 percent of last year.



January maximum swe was established in 1997 and minimum swe was in 1977; February maximum swe was in 1997 and minimum was in 1977; March maximum swe was in 1997 and minimum was in 1977; April maximum swe was in 1997 and minimum was in 1977; May maximum swe was in 1997 and minimum swe was in 1977; and June maximum swe was in 1995 and minimum in 2001. Average is for the period 1971 through 2000.

Mountain and valley precipitation during January was 96 percent of average and 110 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2002, was 70 percent of average and 72 percent of last year.



Ennis Lake storage was 96 percent of average and 103 percent of last year and Hebgen Lake storage was 110 percent of average and 102 percent of last year.

Surface Water Supply Index (SWSI) was -2.3 for the Madison River.

MADISON RIVER BASIN
Streamflow Forecasts - February 1, 2003

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
HEBGEN Reservoir Inflow	APR-JUL	195	240	270	69	300	345	390
	APR-SEP	265	315	350	70	385	435	500
ENNIS Reservoir Inflow (2)	APR-JUL	295	375	425	63	475	555	680
	APR-SEP	380	470	535	63	600	690	850

MADISON RIVER BASIN
Reservoir Storage (1000 AF) - End of January

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
ENNIS LAKE	41.0	29.9	28.9	31.3
HEBGEN LAKE	377.5	292.6	286.9	266.5

MADISON RIVER BASIN
Watershed Snowpack Analysis - February 1, 2003

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
MADISON abv HEBGEN LAKE	6	82	77
MADISON blw HEBGEN LAKE	8	80	70
MADISON RIVER BASIN	14	81	73

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

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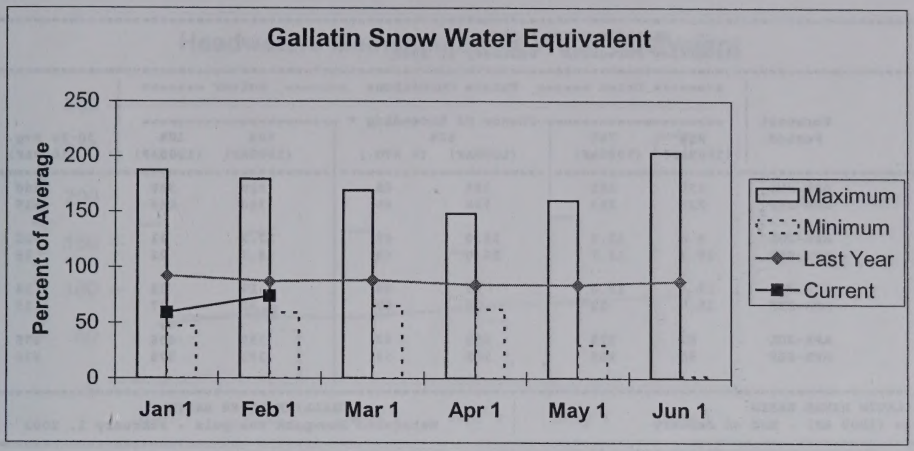
(2) - The value is natural volume - actual volume may be affected by upstream water management.

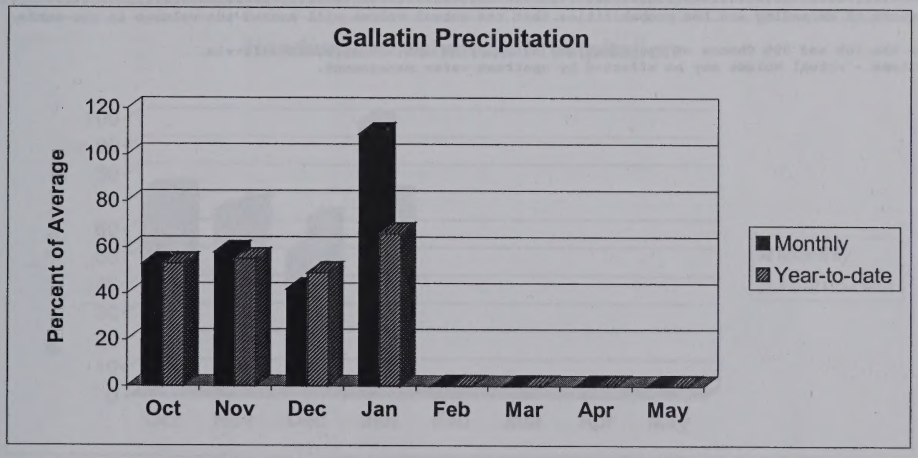
Gallatin River Basin

Snowpack conditions in the Gallatin River Basin were below average. Snow water content was 74 percent of average and 83 percent of last year.



January maximum swe was established in 1997 and minimum swe was in 1966; February maximum swe was in 1997 and minimum was in 1977; March maximum swe was in 1997 and minimum was in 1977 and 1987; April maximum swe was in 1997 and minimum was in 2001; May maximum swe was in 1970 and minimum swe was in 1987; and June maximum swe was in 1975 and minimum in 2001. Average is for the period 1971 through 2000.

Mountain precipitation during January was 104 percent of average and 124 percent of last year. Valley precipitation during January was 197 percent of average and 153 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2002, was 66 percent of average and 72 percent of last year.



Middle Creek storage was 130 percent of average and 86 percent of last year.

Surface Water Supply Index (SWSI) was -2.9 for the Gallatin River.

GALLATIN RIVER BASIN
Streamflow Forecasts - February 1, 2003

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter ======>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
GALLATIN RIVER nr Gateway	APR-JUL	190	245	285	65	325	380	440
	APR-SEP	225	290	335	65	380	445	515
HYALITE RESERVOIR Inflow	APR-JUL	9.6	12.8	15.0	68	17.2	21	22
	APR-SEP	10.3	13.7	16.0	64	18.1	22	25
HYALITE CREEK nr Bozeman (2)	APR-JUL	13.4	19.0	23	68	27	33	34
	APR-SEP	15.0	22	26	67	30	37	39
GALLATIN RIVER at Logan (2)	APR-JUL	57	175	255	52	335	455	495
	APR-SEP	85	215	305	54	395	525	570

GALLATIN RIVER BASIN
Reservoir Storage (1000 AF) - End of January

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
MIDDLE CREEK	10.2	5.6	6.5	4.3

GALLATIN RIVER BASIN
Watershed Snowpack Analysis - February 1, 2003

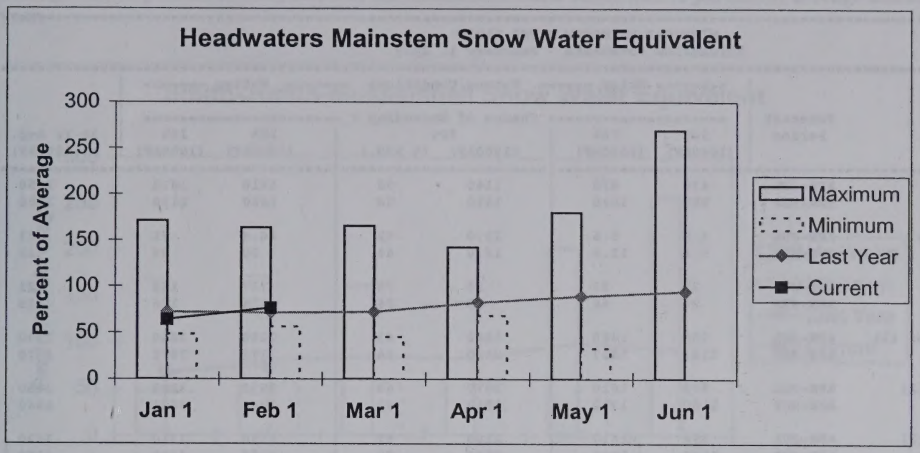
Watershed	Number of Data Sites	This Year as % of Last Yr	Average
UPPER GALLATIN	4	73	69
HYALITE	3	105	73
BRIDGER	2	87	87
GALLATIN RIVER BASIN	9	83	74

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.

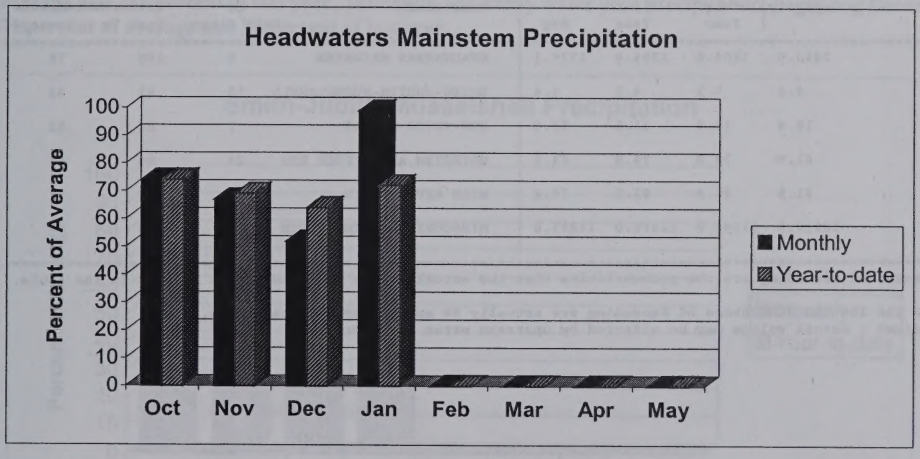
Missouri Mainstem River Basin

Snowpack conditions in the Headwaters Missouri Mainstem River Basin were below average. Snow water content was 76 percent of average and 105 percent of last year.



January maximum swe was established in 1997 and minimum swe in 1977; February maximum swe was in 1972 and minimum swe was in 1977; March maximum swe in 1972 and minimum swe was in 1977; April maximum swe was in 1972 and minimum swe was in 1961 and 1966; May maximum swe was in 1975 and minimum swe was in 1977; and June maximum swe was in 1975 and minimum swe was in 1992. Average is for the period 1971 through 2000.

Mountain precipitation during January was 110 percent of average and 133 percent of last year. Valley precipitation during January was 84 percent of average and 109 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2002, was 72 percent of average and 103 percent of last year.



Canyon Ferry Lake storage was 102 percent of average and 115 percent of last year; Helena Valley storage was 120 percent of average and 118 percent of last year; Lake Helena storage was 84 percent of average and the 98 percent of last year; Hauser & Helena storage was 117 percent of average and 99 percent of last year; Holter Lake storage was 103 percent of average and 100 percent of last year; and Fort Peck Lake storage was 74 percent of average and 91 percent of last year.

Surface Water Supply Index (SWSI) was -2.5 in the Missouri River above Canyon Ferry; -2.3 in the Missouri River below Canyon Ferry; -2.4 the Dearborn River near Craig; -1.3 in the Missouri River above Fort Peck; and -2.7 the Missouri River below Fort Peck.

MISSOURI MAINSTEM RIVER BASIN
Streamflow Forecasts - February 1, 2003

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
MISSOURI RIVER at Toston (2)	APR-JUL	470	870	1140	56	1410	1810	2050
	APR-SEP	555	1020	1340	56	1660	2120	2390
PRICKLY PEAR CREEK nr Clancy	APR-JUL	4.5	9.6	13.0	62	16.4	21	21
	APR-SEP	5.6	11.8	16.0	64	20	26	25
DEARBORN nr Craig	APR-JUL	22	63	90	74	117	158	121
	APR-SEP	24	66	95	76	124	166	125
MISSOURI RIVER at Fort Benton (2)	APR-JUL	900	1480	1880	63	2280	2860	2990
	APR-SEP	1131	1827	2300	64	2771	3471	3570
MISSOURI RIVER at Virgelle (2)	APR-JUL	940	1610	2070	60	2530	3200	3450
	APR-SEP	1180	1972	2510	62	3046	3841	4060
MISSOURI RIVER nr Landusky (2)	APR-JUL	890	1610	2100	57	2590	3310	3690
	APR-SEP	1155	2004	2580	59	3156	4001	4350
MISSOURI RIVER below Fort Peck (2)	APR-JUL	806	1310	2300	62	3290	4750	3740
	APR-SEP	1222	2066	2640	61	3216	4061	4330
LAKE SAKAKAWEA Inflow (2)	APR-JUL	2530	4430	5720	59	7010	8910	9740
	APR-SEP	2832	5016	6500	58	7981	10171	11200

MISSOURI MAINSTEM RIVER BASIN
Reservoir Storage (1000 AF) - End of January

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
CANYON FERRY LAKE	2043.0	1604.0	1396.0	1576.1
HELENA VALLEY	9.2	5.3	4.5	4.4
LAKE HELENA	10.4	10.9	11.1	13.0
HAUSER & HELENA	61.9	74.0	74.8	63.2
HOLTER LAKE	81.9	81.6	81.3	79.4
FORT PECK LAKE	18910.0	11000.0	12070.0	14887.0

MISSOURI MAINSTEM RIVER BASIN
Watershed Snowpack Analysis - February 1, 2003

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
HEADWATERS MAINSTEM	8	105	76
SMITH-JUDITH-MUSSELSHELL	10	93	74
SUN-TETON-MARIAS	7	64	52
MAINSTEM ab FT PECK RES	24	84	65
MILK RIVER BASIN	10	72	17
MISSOURI MAINSTEM BASIN	33	85	60

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

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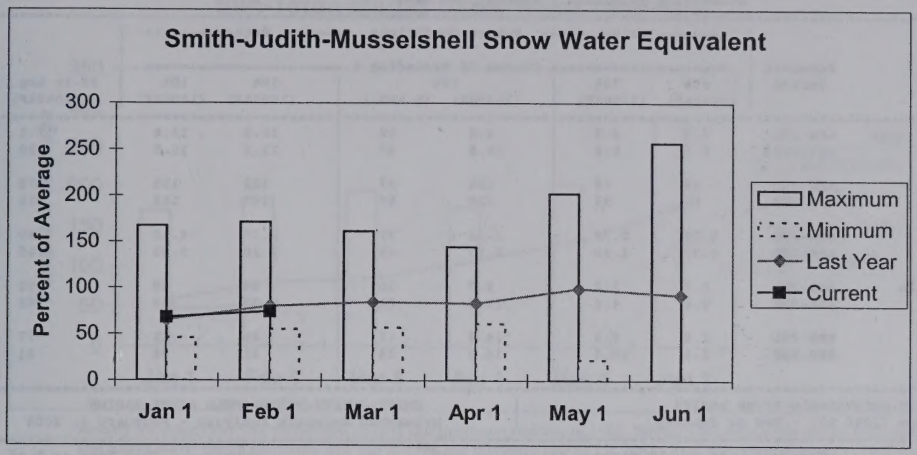
(2) - The value is natural volume - actual volume may be affected by upstream water management.

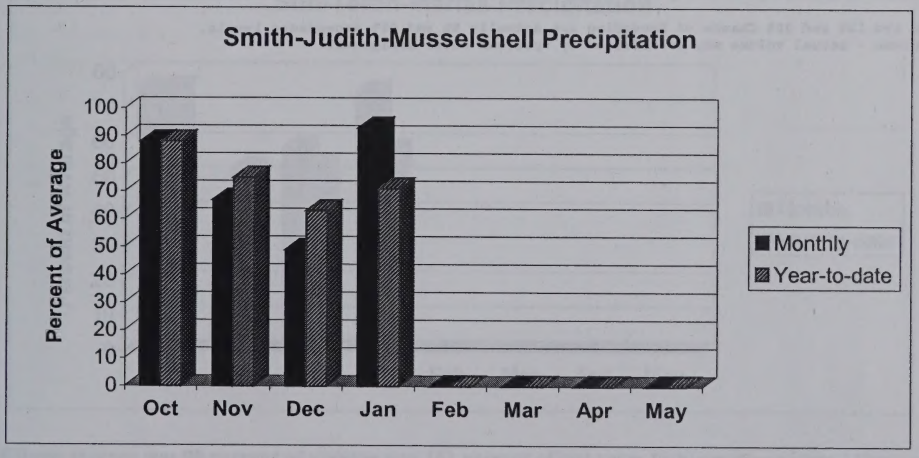
Smith-Judith-Musselshell River Basins

Snowpack conditions in the Smith-Judith-Musselshell River Basins were below average. Snow water content in the Smith River Basin was 75 percent of average and 93 percent of last year; the Judith River Basin was 71 percent of average and 93 percent of last year; and the Musselshell Basin River was 70 percent of average and 85 percent of last year.



January maximum swe was established in 1997 and minimum swe in 1988; February maximum swe was in 1978 and minimum swe was in 1987; March maximum swe was in 1978 and minimum swe was in 1987; April maximum swe was in 1970 and minimum swe was in 1992; and May maximum swe was in 1970 and minimum swe was in 1987; and June maximum swe was in 1967 and minimum swe was in 1987, 1992, 1994, and 2001. Average is for the period 1971 through 2000.

Mountain and valley precipitation during January in the Smith-Belts was 83 percent of average and 80 percent of last year; in the Judith was 93 percent of average and 82 percent of last year; and in the Musselshell was 128 percent of average and 152 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2002, was 71 percent of average and 98 percent of last year.



Smith River storage was 67 percent of average and 300 percent of last year; Bair storage was 42 percent of average and 94 percent of last year; Martinsdale storage was 10 percent of average and 1000 percent of last year; and Deadman's Basin was 34 percent of average and 125 percent of last year.

Surface Water Supply Index (SWSI) was -1.9 in the Smith River and -3.3 in the Musselshell River.

SMITH-JUDITH-MUSSELSHELL RIVER BASINS
Streamflow Forecasts - February 1, 2003

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
SHEEP CREEK nr White Sulphur Spgs.	APR-JUL	4.0	6.9	8.9	52	10.9	13.8	17.1
	APR-SEP	5.5	8.8	11.0	55	13.2	16.5	20
SMITH RIVER abv Eagle Creek	APR-JUL	45	78	100	57	122	155	175
	APR-SEP	53	93	120	57	147	188	210
NF MUSSELSHELL nr Delpine	APR-JUL	0.23	0.72	1.70	37	2.70	4.10	4.60
	APR-SEP	0.22	1.10	2.20	41	3.30	5.00	5.40
SF MUSSELSHELL abv Martinsdale	APR-JUL	0.5	3.2	9.7	19	24	45	52
	APR-SEP	0.6	4.6	11.8	21	27	49	56
MUSSELSHELL at Harlowton (2)	APR-JUL	1.0	8.8	14.0	18	29	51	77
	APR-SEP	2.1	10.4	16.0	20	31	54	81

SMITH-JUDITH-MUSSELSHELL RIVER BASINS
Reservoir Storage (1000 AF) - End of January

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
SMITH RIVER	10.6	4.2	1.4	6.3
BAIR	7.0	1.5	1.6	3.6
MARTINSDALE	23.1	1.0	0.1	10.1
DEADMAN'S BASIN	72.2	15.7	12.6	46.8

SMITH-JUDITH-MUSSELSHELL RIVER BASINS
Watershed Snowpack Analysis - February 1, 2003

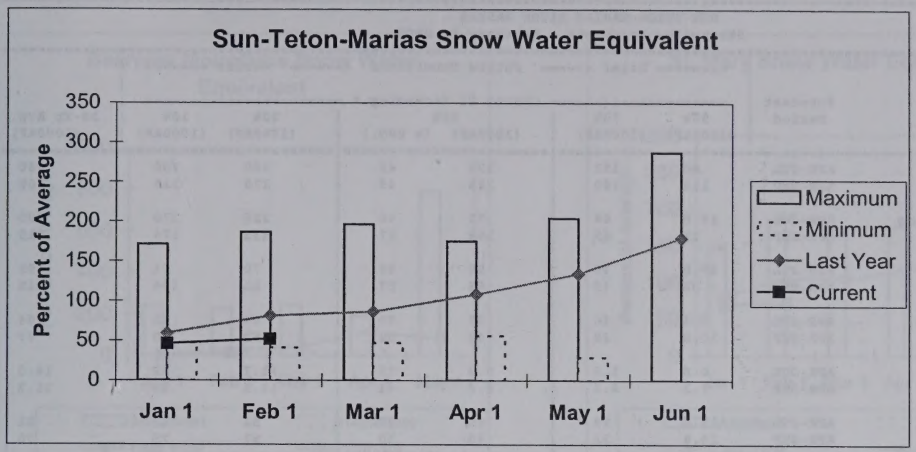
Watershed	Number of Data Sites	This Year as % of Last Yr	Average
SMITH	6	93	75
JUDITH	4	93	71
MUSSELSHELL	3	85	70
SMITH-JUDITH-MUSSELSHELL	10	93	74

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.

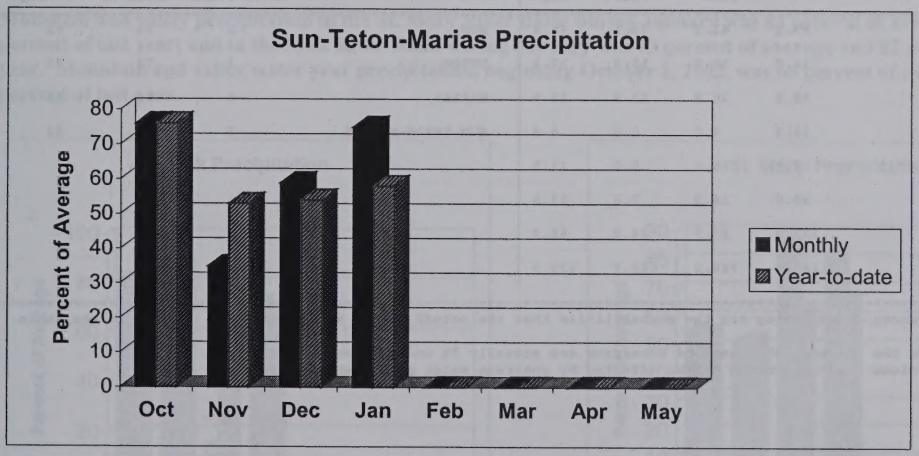
Sun-Teton-Marias River Basins

Snowpack conditions in the Sun-Teton-Marias River Basins were well below average. Snow water content in the Sun River Basin was 61 percent of average and 74 percent of last year; in the Teton River Basin was 51 percent of average and 79 percent of last year; and in the Marias River Basin was 49 percent of average and 58 percent of last year.



January maximum swe was established in 1997 and minimum swe was in 1988; February maximum swe was in 1972 and minimum swe was in 2001; March maximum swe was in 1972 and minimum swe was in 1984; April maximum swe was in 1972 and minimum swe was in 1984 and 1998; May maximum swe was in 1972 and minimum swe was in 1977; and June maximum was in 1972 and minimum swe was in 1987, 1992, and 1998. Average is for the period 1971 through 2000.

Mountain and valley precipitation during January in the Sun was 88 percent of average and 76 percent of last year; in the Teton was 95 percent of average and 82 percent of last year; and in the Marias was 65 percent of average and 53 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2002, was 58 percent of average and 77 percent of last year.



Gibson storage was 90 percent of average and 161 percent of last year; Pishkun storage was 110 percent of average and 99 percent of last year; Willow Creek storage was 120 percent of average and 193 percent of last year; Lower Two Medicine Lake storage was 45 percent of average and 0 percent of last year; Four Horns Lake storage was 93 percent of average and 0 percent of last year; Swift storage was 105 percent of average and 302 percent of last year; Lake Frances storage was 136 percent of average and 378 percent of last year; and Lake Elwell (Tiber) storage was 120 percent of average and 115 percent of last year.

Surface Water Supply Index (SWSI) was -3.9 in the Sun River; -2.9 in the Teton River; -2.4 in the Birch/Dupuyer Creeks; -2.2 in the Marias River above Tiber, and -0.8 in the Marias below Tiber.

SUN-TETON-MARIAS RIVER BASINS
Streamflow Forecasts - February 1, 2003

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
GIBSON Reservoir Inflow	APR-JUL	88	152	195	42	240	300	460
	APR-SEP	114	180	225	45	270	335	505
TWO MEDICINE RIVER nr Browning	APR-JUL	19.0	64	95	46	126	170	205
	APR-SEP	23	69	100	47	131	176	215
BADGER CREEK nr Browning (2)	APR-JUL	19.0	40	55	56	70	91	99
	APR-SEP	26	49	65	57	81	104	115
SWIFT RESERVOIR Inflow	APR-JUL	3.4	20	32	50	44	61	64
	APR-SEP	10.0	28	40	52	52	70	77
DUPUYER CREEK nr Valier	APR-JUL	0.8	1.6	5.2	37	11.7	22	14.0
	APR-SEP	1.3	2.6	6.4	41	13.3	24	15.7
CUT BANK CREEK at Cut Bank	APR-JUL	12.0	29	40	49	51	68	81
	APR-SEP	14.6	33	45	50	57	75	90
MARIAS RIVER nr Shelby (2)	APR-JUL	138	153	225	54	299	404	415
	APR-SEP	141	161	235	53	310	420	440
TETON nr Dutton	APR-JUL	1.0	8.7	14.0	28	28	49	51
	APR-SEP	1.5	9.6	15.2	26	29	51	59

SUN-TETON-MARIAS RIVER BASINS
Reservoir Storage (1000 AF) - End of January

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
GIBSON	99.1	41.3	25.7	45.8
PISHKUN	32.0	19.6	19.8	17.8
WILLOW CREEK	32.2	26.8	13.9	22.4
LOWER TWO MEDICINE LAKE	11.9	4.0	0.0	8.8
FOUR HORNS LAKE	19.2	11.1	0.0	11.9
SWIFT	30.0	16.3	5.4	15.5
LAKE FRANCES	112.0	90.7	24.0	66.8
LAKE ELWELL (TIBER)	1347.0	760.9	660.0	635.5

SUN-TETON-MARIAS RIVER BASINS
Watershed Snowpack Analysis - February 1, 2003

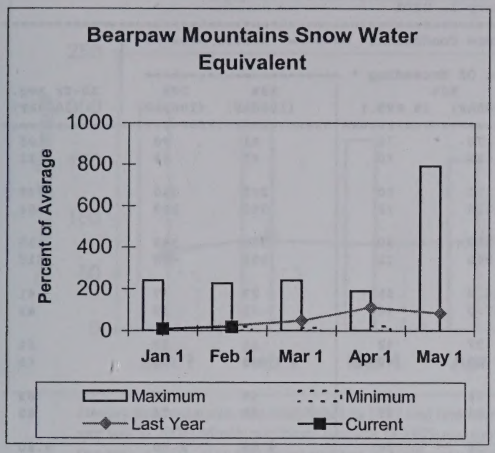
Watershed	Number of Data Sites	This Year as % of Last Yr	Average
SUN	2	74	61
TETON	3	79	51
MARIAS	4	58	49
SUN-TETON-MARIAS	7	64	52

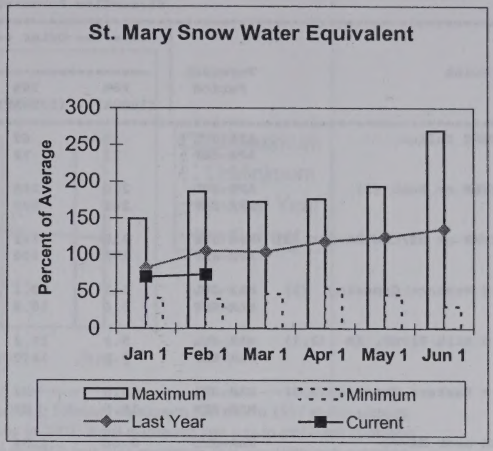
* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.

St. Mary and Milk River Basins

Snowpack conditions in the St. Mary and Milk River Basins were below average. Snow water content in the Saint Mary River Basin was 73 percent of average and 70 percent of last year. Snow water content in the Bearpaw Mountains was 17 percent of average and 59 percent of last year. Snow water content for the Cypress Hills in Canada was 18 percent of average and 87 percent of last year.

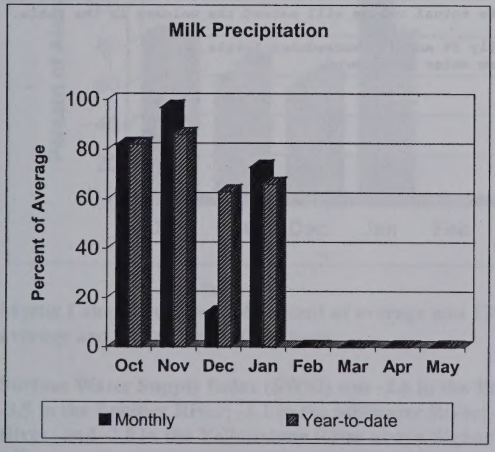


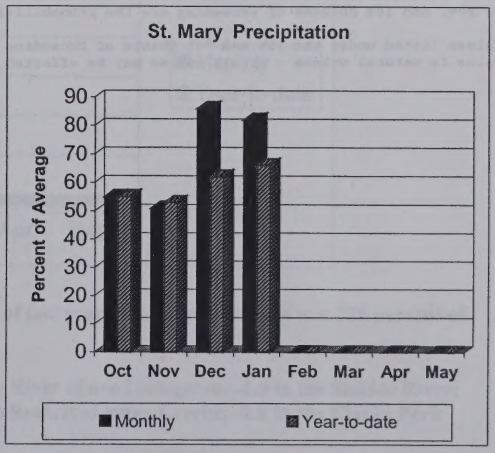


Bearpaw - January maximum swe was established in 1978 and minimum swe was in 1981; February maximum swe was 1978 and minimum was in 2001; March maximum swe was 1978 and minimum swe was 1995; April maximum swe was in 1985 and minimum swe was in 1973, 1983, and 1986; May maximum swe was 1975 and the minimum, 0.0, has occurred in several years. Average is for the period 1971 through 2000.

St. Mary - January maximum swe was established in 1997 and minimum swe was in 1988; February maximum swe was in 1972 and minimum swe was in 1977; March maximum swe was in 1972 and minimum swe was in 1977; April maximum swe was in 1967 and 1972 and minimum swe was in 2001; May maximum swe was in 1972 and minimum swe was in 1977; and June maximum swe was in 1972 and minimum swe was 1992. Average is for the period 1971 through 2000.

Mountain and valley precipitation in the St. Mary River Basin during January was 82 percent of average and 56 percent of last year; and in the Milk River Basin during January was 73 percent of average and 82 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2002, was 66 percent of average and 83 percent of last year.





Lake Sherburne storage was 44 percent of average and 64 percent of last year; Fresno storage was 99 percent of average and 696 percent of last year; Beaver Creek storage was 123 percent of average and 540 percent of last year; and Nelson storage was 113 percent of average and 310 percent of last year.

Surface Water Supply Index (SWSI) was -2.5 for the Milk River.

ST. MARY and MILK RIVER BASINS
Streamflow Forecasts - February 1, 2003

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
LAKE SHERBURNE Inflow	APR-JUL	60	69	75	71	81	90	105
	APR-SEP	71	79	85	70	91	99	122
ST. MARY RIVER nr Babb (2)	APR-JUL	210	245	270	70	295	330	385
	APR-SEP	260	300	325	72	350	390	450
ST. MARY RIVER at US/CAN Border (2)	APR-JUL	215	265	300	69	335	385	435
	APR-SEP	275	330	365	71	400	455	515
MILK RIVER @ Western Crossing (3)	MAR-JUL	5.7	10.1	16.0	39	27	37	41
	MAR-SEP	5.6	10.4	17.0	40	29	39	43
MILK RIVER @ Milk River, AB (2,3)	MAR-JUL	9.0	17.3	27	42	44	59	64
	MAR-SEP	9.2	18.0	28	40	45	62	69
MILK RIVER @ Eastern Crossing(2,3)	MAR-JUL	10.8	22	31	37	49	67	83
	MAR-SEP	10.5	24	34	39	52	74	88
BEAVER CREEK near Havre	MAR-JUL	0.48	1.56	2.30	24	4.40	7.50	9.60

ST. MARY and MILK RIVER BASINS
Reservoir Storage (1000 AF) - End of January

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
LAKE SHERBURNE	64.3	10.6	16.6	24.0
FRESNO	127.0	49.4	7.1	50.1
BEAVER CREEK	3.5	2.7	0.5	2.2
NELSON	66.8	38.5	12.4	34.2

ST. MARY and MILK RIVER BASINS
Watershed Snowpack Analysis - February 1, 2003

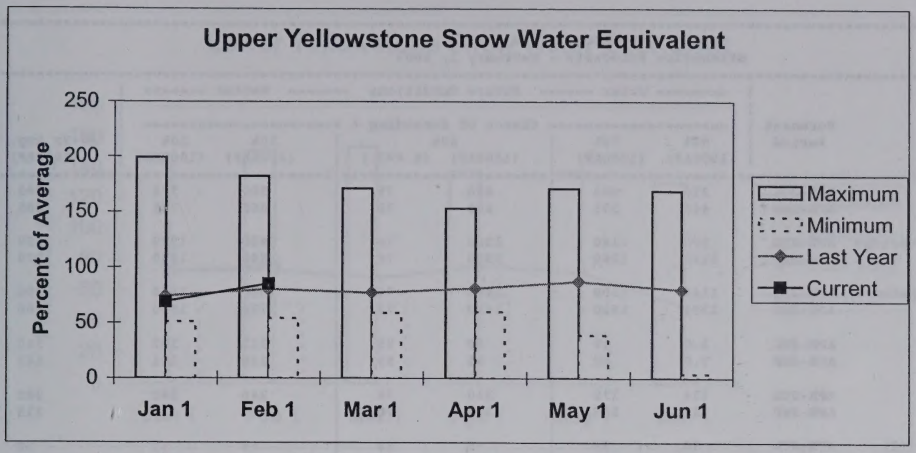
Watershed	Number of Data Sites	This Year as % of Last Yr	Average
ST. MARY	2	70	73
BEARPAW MOUNTAINS	4	59	17
CYPRESS HILLS, CANADA	6	87	18
MILK RIVER BASIN	9	72	18
ST. MARY & MILK BASINS	12	70	52

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.

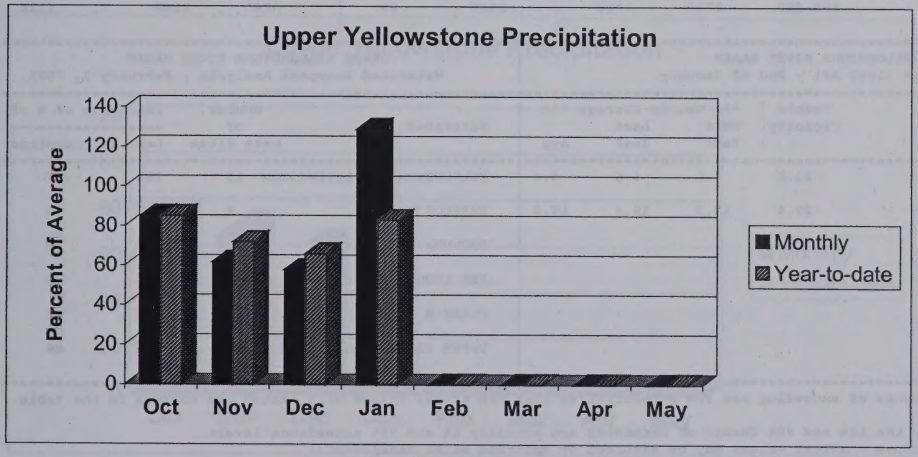
Upper Yellowstone River Basin

Snowpack conditions in the Upper Yellowstone River Basin were below average. Snow water content was 85 percent of average and 105 percent of last year.



January maximum swe was established in 1997 and minimum swe was in 1988; February maximum swe was in 1997 and minimum swe was in 2001; March maximum swe was in 1997 and minimum swe was in 2001; April maximum swe was in 1997 and minimum swe was in 2001; May maximum swe was in 1997 and minimum swe was in 1987; and June maximum swe was 1996 and minimum swe was in 2001. Average is for the period 1971 through 2000.

Mountain precipitation during January was 129 percent of average and 139 percent of last year. Valley precipitation during January was 128 percent of average and 135 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2002, was 83 percent of average and 99 percent of last year.



Mystic Lake storage was 94 percent of average and 130 percent of last year and Cooney storage was 128 percent of average and 121 percent of last year.

Surface Water Supply Index (SWSI) was -2.6 in the Yellowstone River above Livingston; -2.8 in the Shields River; -3.5 in the Boulder River; -3.1 in the Stillwater River; -1.9 in the Rock/Red lodge Creeks; -2.8 in the Clarks Fork River; and -2.8 in the Yellowstone River above Bighorn River.

UPPER YELLOWSTONE RIVER BASIN
Streamflow Forecasts - February 1, 2003

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
YELLOWSTONE at Lake Outlet	APR-JUL	330	400	450	76	500	570	590
	APR-SEP	445	535	600	75	665	755	805
YELLOWSTONE RIVER at Corwin Springs	APR-JUL	990	1160	1280	78	1400	1570	1650
	APR-SEP	1160	1360	1500	76	1640	1840	1970
YELLOWSTONE RIVER near Livingston	APR-JUL	1140	1300	1400	74	1500	1660	1900
	APR-SEP	1350	1530	1650	72	1770	1950	2280
SHIELDS RIVER nr Livingston	APR-JUL	3.0	49	80	55	111	157	145
	APR-SEP	7.0	60	95	59	130	181	162
BOULDER RIVER at Big Timber	APR-JUL	134	179	210	74	240	285	285
	APR-SEP	139	185	220	70	255	300	315
MYSTIC LAKE Reservoir Inflow (2)	APR-JUL	30	36	40	68	44	50	59
	APR-SEP	40	47	52	68	57	64	76
STILLWATER RIVER nr Absarokee (2)	APR-JUL	235	295	340	69	385	445	495
	APR-SEP	285	355	400	68	445	515	585
CLARKS FORK RIVER nr Belfry	APR-JUL	290	350	390	72	430	490	540
	APR-SEP	320	380	420	71	460	520	595
COONEY RESERVOIR Inflow (2)	APR-JUL	5.7	22	33	70	44	60	47
	APR-SEP	12.0	29	40	70	51	68	57
YELLOWSTONE RIVER at Billings (2)	APR-JUL	1220	1770	2140	61	2510	3060	3510
	APR-SEP	1720	2360	2800	68	3240	3880	4120

UPPER YELLOWSTONE RIVER BASIN
Reservoir Storage (1000 AF) - End of January

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
MYSTIC LAKE	21.0	6.0	4.6	6.4
COONEY	27.4	20.0	16.5	15.6

UPPER YELLOWSTONE RIVER BASIN
Watershed Snowpack Analysis - February 1, 2003

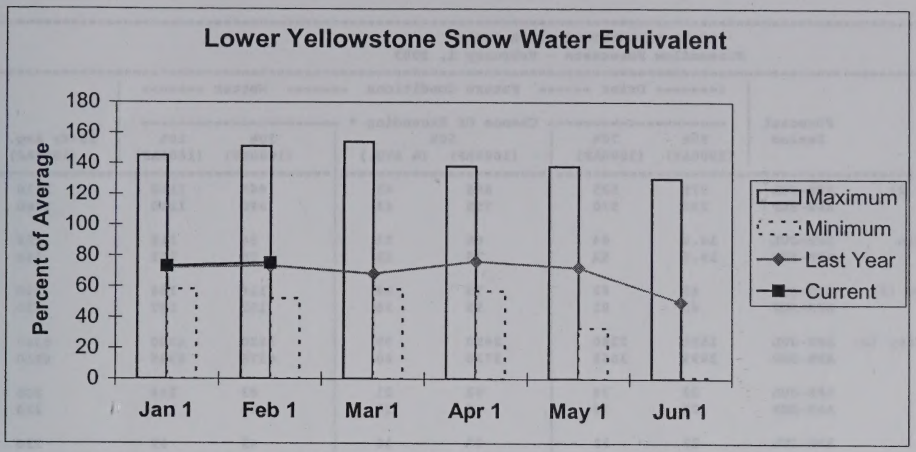
Watershed	Number of Data Sites	This Year as % of Last Yr	Average
YELLOWSTONE ab LIVINGSTON	15	104	86
SHIELDS	4	90	80
BOULDER-STILLWATER	3	90	75
RED LODGE-ROCK CREEK	1	213	88
CLARK'S FORK	7	116	92
UPPER YELLOWSTONE BASIN	26	105	85

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.

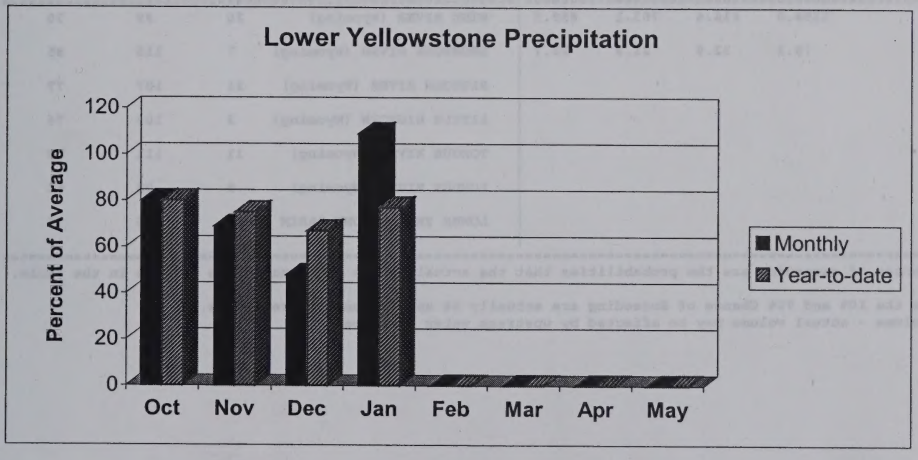
Lower Yellowstone River Basin

Snowpack conditions in the Lower Yellowstone River Basin, in Wyoming, were below average. Snow water content was 75 percent of average and 106 percent of last year.



January maximum swe was established in 1997 and minimum swe was in 2000; February maximum swe was in 1997 and minimum swe was in 2001; March maximum swe was in 1986 and minimum swe was in 2001; April maximum swe was in 1986 and minimum swe was in 2001; May maximum swe was in 1997 and minimum swe was in 1981; and June maximum swe was in 1995 and minimum swe was in 2001. Average is for the period 1971 through 2000.

Mountain and valley precipitation during January was 109 percent of average and 132 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2002, was 77 percent of average and 105 percent of last year.



Bighorn Lake storage was 72 percent of average and 88 percent of last year and Tongue River storage was 145 percent of average and 151 percent of last year.

Surface Water Supply Index (SWSI) was -3.9 in the Bighorn River below Bighorn Lake; -2.4 in the Little Bighorn River; -3.3 in the Yellowstone River below Bighorn River; -3.4 in the Tongue River; and -3.9 in the Powder River.

LOWER YELLOWSTONE RIVER BASIN
Streamflow Forecasts - February 1, 2003

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
BIGHORN RIVER nr St. Xavier (2)	APR-JUL	275	525	695	43	865	1120	1610
	APR-SEP	295	570	755	43	940	1220	1760
LITTLE BIGHORN RIVER nr Hardin	APR-JUL	14.0	44	65	51	86	116	128
	APR-SEP	19.0	52	75	52	98	131	144
TONGUE RIVER RESERVOIR Inflow (2)	APR-JUL	43	62	75	34	114	164	220
	APR-SEP	60	81	95	38	132	187	250
YELLOWSTONE RIVER at Miles City (2)	APR-JUL	1550	2380	2950	55	3520	4350	5360
	APR-SEP	2093	3062	3720	60	4375	5345	6210
POWDER RIVER at Moorehead	APR-JUL	22	34	42	21	83	144	205
	APR-SEP	25	38	46	20	88	149	230
POWDER RIVER near Locate	APR-JUL	27	33	37	16	62	99	235
	APR-SEP	44	54	60	23	88	128	260
YELLOWSTONE RIVER nr Sidney (2)	APR-JUL	1464	2320	2900	53	3480	4340	5480
	APR-SEP	1815	2794	3460	55	4126	5101	6280

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

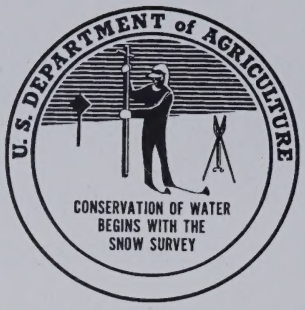
(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.

LOWER YELLOWSTONE RIVER BASIN
Reservoir Storage (1000 AF) - End of January

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
BIGHORN LAKE	1356.0	616.4	701.1	859.5
TONGUE RIVER	79.1	32.9	21.8	22.7

LOWER YELLOWSTONE RIVER BASIN
Watershed Snowpack Analysis - February 1, 2003

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
WIND RIVER (Wyoming)	20	99	70
SHOSHONE RIVER (Wyoming)	7	115	85
BIGHORN RIVER (Wyoming)	21	107	77
LITTLE BIGHORN (Wyoming)	3	109	76
TONGUE RIVER (Wyoming)	11	111	79
POWDER RIVER (Wyoming)	9	93	66
LOWER YELLOWSTONE BASIN (	50	106	75



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Montana
Water Supply Outlook
Report

Natural Resources Conservation Service
Bozeman, MT